# YEPP

**Model Name : YP-S3**
**Model Code : YP-S3JCB/EDC**

# SERVICE Manual

## YEPP

YP-S3

## CONTENTS


1. Precaution
2. Product Specification
3. Disassembly & Reassembly
4. Troubleshooting
5. Exploded View & Part List
6. PCB Diagram
7. Schematic Diagram


Refer to the service manual in the GSPN (see the rear cover) for the more information.

**GSPN (Global Service Partner Network)**

| Area | Web Site |
|---|---|
| North America | service.samsungportal.com |
| Latin America | latin.samsungportal.com |
| CIS | cis.samsungportal.com |
| Europe | europe.samsungportal.com |
| China | china.samsungportal.com |
| Asia | asia.samsungportal.com |
| Mideast & Africa | mea.samsungportal.com |

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# Contents


## 1. Precaution

1-1 Safety Precautions ..... 1-1
1-2 Static Electricity Precautions ..... 1-2

## 2. Product Specification

2-1 Product Feature ..... 2-1
2-2 Specifications ..... 2-3
2-3 Specifications Analysis ..... 2-4
2-4 Accessories ..... 2-6

## 3. Disassembly & Reassembly

3-1 Overall Disassembly & Reassembly ..... 3-1

## 4. Troubleshooting

4-1 Checkpoints by Error Mode ..... 4-2
4-2 Upgrade Methods ..... 4-14

## 5. Exploded View & Part List

5-1 Exploded View ..... 5-2
5-2 Electrical Part List ..... 5-4

## 6. PCB Diagram

6-1 PCB Top ..... 6-2
6-2 PCB Bottom ..... 6-4

## 7. Schematic Diagram

7-1 Overall Block Diagram ..... 7-2
7-2 S5L8700A02 ..... 7-3
7-3 MEMORY ..... 7-4
7-4 LCD/KEY ..... 7-5
7-5 USB/MODE/DET ..... 7-6
7-6 AUDIO (EAR JACK) ..... 7-7
7-7 POWER ..... 7-8
7-8 FM/RTC ..... 7-9
7-9 CODEC ..... 7-10

# 1. Precaution

## 1-1 Safety Precautions

1. To remove dust from cabinet, use a dry cloth without using liquid and aerosol cleaner.
2. You should not use attachments not recommended by the company. Otherwise, it may cause critical damage.
3. You should not use this product near water such as bathtub, swimming pool or lake etc.
4. Power supply: A type of battery as displayed on the label should be only used.
5. You should not put any object or liquid into product. Otherwise, it may cause failure or mal-operation.
6. If replacement material is required, service engineer should use materials with the same standard.
   The use of non-standardized materials may cause failure of product.

## 1-2 Static Electricity Precautions

Some semi-conductor parts may be easily damaged due to static electricity.
These elements are generally called as static electricity sense device (ESD). Typically examples of EST include IC, some transistor and chip element for semi-conductor with electrical field effect.
The following methods should be used to reduce damage of elements occurred due to static electricity:

1. Contact and emit all the grounding objects with static electricity from your body before handling with elements for semi-conductor or devices with elements for semi-conductor. You should purchase and use static electricity arm rings or commercially available. You should remove it due to potential shock before supplying power to the device under test.

2. You should place appliance on the conductive surface like aluminum film to prevent that static electricity is accumulated or the device is disclosed outside after removing electrical appliance with the ESD device.

3. You should use only soldering iron that is ground when soldering the ESD device.

4. Minimize physical operation when handling with the ESD device for replacement without packing (Otherwise, namely friction between cloth fibers or lifting of the foot from the carpet floor may cause static electricity enough to damage the ESD device).

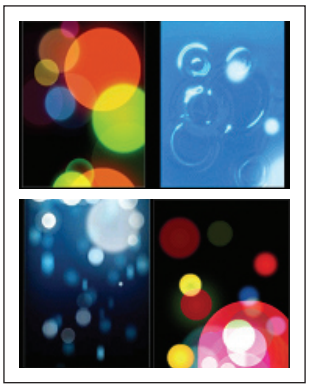
# 2. Product Specification

## 2-1 Product Feature

### ■ Sparkling

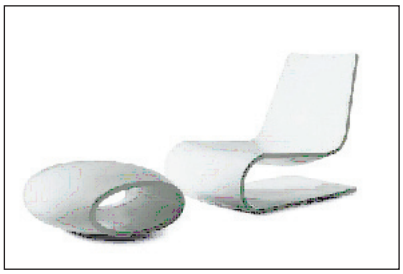
- Design: Sparkling Design & Color

- GUI & PUI: Sensitive Color/Stella GUI
  Sensitive image with middle LED button dimming effect



### ■ Grip & Touch

- Grip
  → Wireless curved 9.8mm Grip
  → Soft Grip (No edge lines on part that touches hand)
  → More compact face size than K3 (42.5 x 94 mm)



- Touch Pad
  → Stylish usability with soft control
  → Complete stylish look with LED lighting

## ■ Best Audio

- DNSe 2.0+
  → Enjoy natural sound with new DNSe 2.0+ audio technology
  → User EQ that can directly set and share precise audio effects

- EP380
  → EP380 is color-matched to the set and provides perfect audio quality and style
  (Judged by American audio quality specialist as superior to EP370)

- Various Life Styles
  → Compatible with various accessories such as Cradle Speaker (Samsung Brand & 3rd Vendor), FM Transmitter (3rd Vendor), etc.

## 2-2 Specifications

### ■ Basic Specification

| | | |
|---|---|---|
| **Rating** | | DC 5.0V/ 500mA |
| **Built-in Battery Power** | | 580 mAh/ DC 3.7V |
| **File Compatibility** | | AUDIO: MPEG1/2/2.5 Layer3 (8kbps~320kbps, 8kHz~48kHz),<br>WMA(48kbps~192kbps, 8kHz~48kHz), Ogg(Q1~Q10)<br>VIDEO: SVI (Video: MPEG4, Audio: MP3 (44.1kHz, 128kbps),<br>Resolution: 208X176, Frame Rate: 15fps)<br>IMAGE: JPG (Progressive, Sequential Scanning, File Size: less than 3MB) |
| **Supported Number of Files** | | Max. 5000 (Include folder) |
| **Earphone Output** | | 20mW/Ch. (based on 16Ω) |
| **Output Frequency Range** | | 40Hz~20kHz |
| **Signal to Noise Ratio** | | 90 dB with 20 kHz LPF (based on 1kHz 0 dB) |
| **Play Time** | | Maximum of 25 hours for music playback,<br>Maximum of 4 hours for video playback<br>(Based on: MP3 128kbps, Volume: 15, Normal Mode) |
| **Temperature Range for Operation** | | -5~35°C (23~95°F) |
| **Case** | | Metal Plating, Plastic |
| **Weight** | | 1.87 oz |
| **Dimensions (W x H x D)** | | 1.73 x 3.74 x 0.38 inch |
| **FM Radio** | **FM Frequency** | 87.5~108.0MHz |
| | **FM Signal to Noise Ratio** | 55 dB |
| | **FM T.H.D** | 1% |
| | **FM Useable Sensitivity** | 38dBu |

## 2-3 Specifications Analysis

| Model Name | | YP-S3 | YP-S5 |
|---|---|---|---|
| Photo | | | |
| Basic | Storage TYPE | Flash memory (MLC) | Flash memory (MLC) |
| | Display | Size: 1.8" 262K QCIF TFT LCD<br>Display Color: 262K LCD<br>(Real color 65K color)<br>Resolution: 176(H) X 220(V) | Size: 1.8" 262K QCIF TFT LCD<br>Display Color: 262K LCD<br>(Real color 65K color)<br>Resolution: 176(H) X 220(V) |
| | Platform | Blues (SYS LSI) | Blues (SYS LSI) |
| | Battery | Li-Polymer | Li-Polymer |
| | Battery Capacity | 580mAh | 600mAh |
| | Playback Time (Earphone) | 25 hrs | 25 hrs |
| | Playback Time (Speaker) | X | 5 hrs |
| | Color | White / Black / Green / Blue / Red | White / Black |
| Capacity | 512M | X | X |
| | 1G | X | X |
| | 2G | ○ | ○ |
| | 4G | ○ | ○ |
| | 8G | ○ | ○ |
| Files | MP3 | ○ | ○ |
| | WMA | ○ | ○ |
| | OGG | ○ (up to Q10) | ○ (up to Q10) |
| | WAV | X | X |
| | AAC | X | X |
| | Audible | X | X |
| | JPEG | ○ | ○ |
| | FLAC | ○ | ○ |
| | APE | ○ | ○ |
| | WMV | X | X |
| | MPEG4 (SVI) | ○ (176 x 208, 15 Frame) | ○ (176 x 208, 15 Frame) |
| | Swf | (V4.0) - Game/UI Only | (V4.0) - Game/UI Only |
| | Others | X | X |
| Sound | Preset EQ | Normal, Rock, Classical, Jazz, House, Ballad, R&B, Dance | Normal, Rock, Classical, Jazz, House, Ballad, R&B, Dance |
| | User EQ | ○ (9 band control) | ○ (9 band control) |
| | Special Effect | DNSe Portable: 3D-User, 3D-Studio, 3D-Stage, 3D-Club | DNSe Portable: 3D-User, 3D-Studio, 3D-Stage, 3D-Club |
| | Etc. | Street Mode | Street Mode |
| | Sound Feedback | ○ (AUI) | ○ (AUI) |
| | Speed Control | ○ (MP3 file play 0.75~1.3X) | ○ (MP3 file play 0.75~1.3X) |
| | Alarm | ○ | ○ |
| | OUTPUT POWER | 20mW/CH | 20mW/CH |

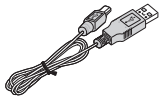
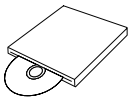
※ ○: application, X: non-application

| Model Name | | YP-S3 | YP-S5 |
|---|---|---|---|
| Photo | | | |
| Encoding | FM | ○ | ○ |
| | Programmed FM REC. | ○ | ○ |
| | Line in | X | X |
| | Video | X | X |
| Tuner | FM | ○ | ○ |
| | RDS | ○ | ○ |
| | DMB | X | X |
| | Etc. | X | X |
| Voice Recording Function | Voice Recording | X | ○ |
| | Recording Format | X | MP3 |
| | Recording Mode | X | 4 Mode (32Kbps ~128Kbps) |
| Function (Music) | Playlist | ○<br>Mobile Playlist (Favorite)<br>PC Playlist (SPL, WPL) | ○<br>Mobile Playlist (Favorite)<br>PC Playlist (SPL, WPL) |
| | Folder play (Browse) | ○ | ○ |
| | Library | ○ (Artist, Album, Genre, Title DB sorting) | ○ (Artist, Album, Genre, Title DB sorting) |
| | File Navigation | ○ | ○ |
| Function (Video) | Photo Viewer | ○<br>(JPEG Slide show, 3X3 Thumbnail) | ○<br>(JPEG Slide show, 3X3 Thumbnail) |
| | Text Viewer | ○ (book mark/page up, down) | ○ (book mark/page up, down) |
| | Game | ○ Flash Gaming (3 games) | ○ Flash Gaming (3 games) |
| | Wallpaper | ○ (Wall paper change, Menu color change) | ○ (Wall paper change, Menu color change) |
| | Clock | ○ | ○ |
| | Etc. | Clock Screen Saver, Dynamic EQ Display | Clock Screen Saver, Dynamic EQ Display |
| Function (Other) | Multi language menu | 16 LANUAGE<br>- KOR, ENG, FRA, GER, ITA, JPN, CHA-S, CHA-T, RUS, HUG, POR, SPA, DUT, POL, SWE, Thai | 16 LANUAGE<br>- KOR, ENG, FRA, GER, ITA, JPN, CHA-S, CHA-T, RUS, HUG, POR, SPA, DUT, POL, SWE, Thai |
| | Multi language tag display | ○ (16languages) + tag | ○ (16languages) + tag |
| | Resume | ○ (Audio/Video/Photo/Text) | ○ (Audio/Video/Photo/Text) |
| | Bookmark | ○ (Video/Text only) | ○ (Video/Text only) |
| DRM | Netsync (Korea) | ○ | ○ |
| | SKT Melon (Korea) | X | X |
| | WMA DRM | ○ | ○ |
| | Janus | ○ | ○ |

※ ○: application, X: non-application

# 2-4 Accessories

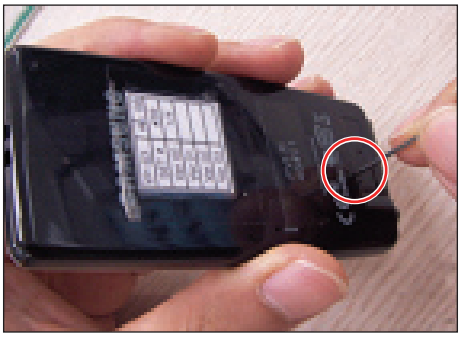
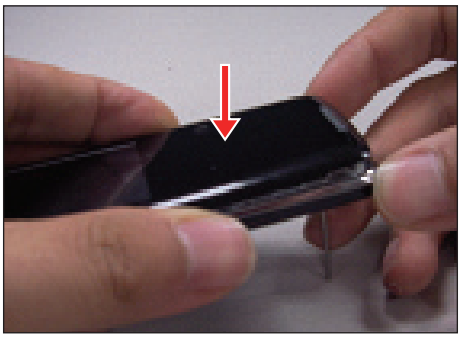
## 2-4-1 Supplied Accessories

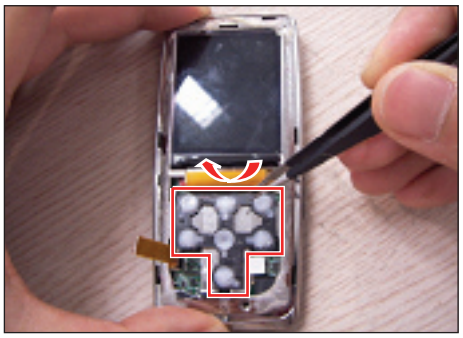
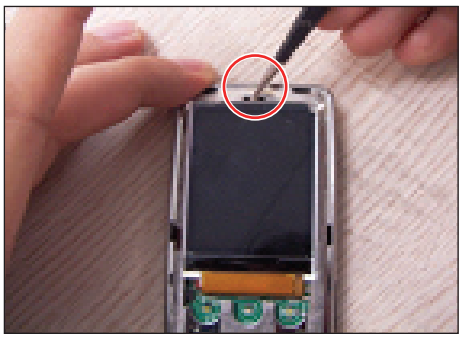
| Accessories | Item | Item code | Remark |
|---|---|---|---|
| | Earphones | AH59-01884A | Samsung Service center |
|  | USB Cable | AH39-00899B | |
|  | Program Installation CD | AH46-00057B | |

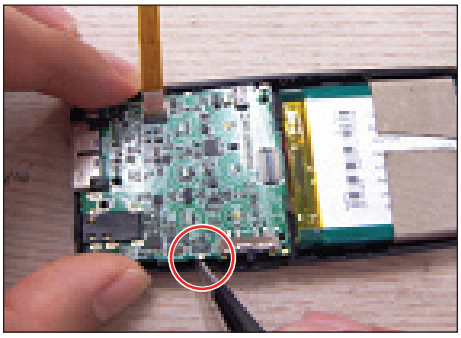
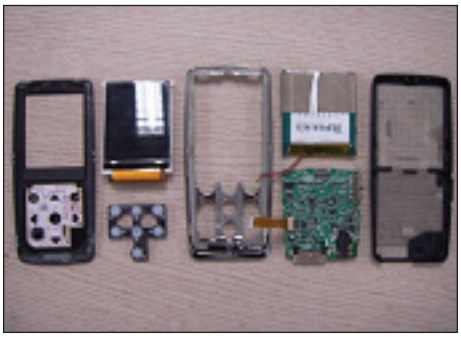
# 3. Disassembly & Reassembly

## 3-1 Overall Disassembly & Reassembly

- Be careful to follow the disassembly sequence described in the manual. Otherwise, the product may be damaged.
- Be sure to carefully read and understand the safety instructions before performing any work as the IC chips on the PCB are vulnerable to static electricity.
- Assemble in the reverse order of disassembly.

| No | Part Name | Description | Description Photo |
|---|---|---|---|
| 1 | CABINET-FRONT | 1) Insert the S5 or K5 Hinge pin or a corresponding short pin in the service hole.<br><br>2) Leaving the pen sticking in the bottom, apply pressure from the top and remove both of the FRONT side tapes.<br><br>⚠ When separating them, be careful not to make scratches. |  <br>  |
| 2 | FPC-TOUCH | 1) Remove the FPC-TOUCH from the TOUCH-PAD's CONNECTOR.<br><br>⚠ When separating the FPC-TOUCH, use the pin set so as not to break it. | |

| No | Part Name | Description | Description Photo |
|---|---|---|---|
| 3 | HOLDER-LED | 1) Use the pen set and pull up from the bottom to the top and remove the HOLDER-LED. |  |
| 4 | LCD | 1) Use the pin set and pull up from the bottom to the top and remove the LCD. |  |
| 5 | CABINET-MIDDLE | 1) Remove the CABINET-MIDDLE screw.<br>: CH,+,B,M1.4,L4,NI PLT | |
| | | 2) Remove the CABINET-MIDDLE. | |

| No | Part Name | Description | Description Photo |
|---|---|---|---|
| 6 | MAIN PCB / BATTERY | 1) Insert the pin set in one SIDE of the PCB, then use it as a lever to remove the locking from the hook.<br>2) Remove the battery.<br>3) How it looks when completely dismantled. |  <br>  |

# MEMO

# 4. Troubleshooting

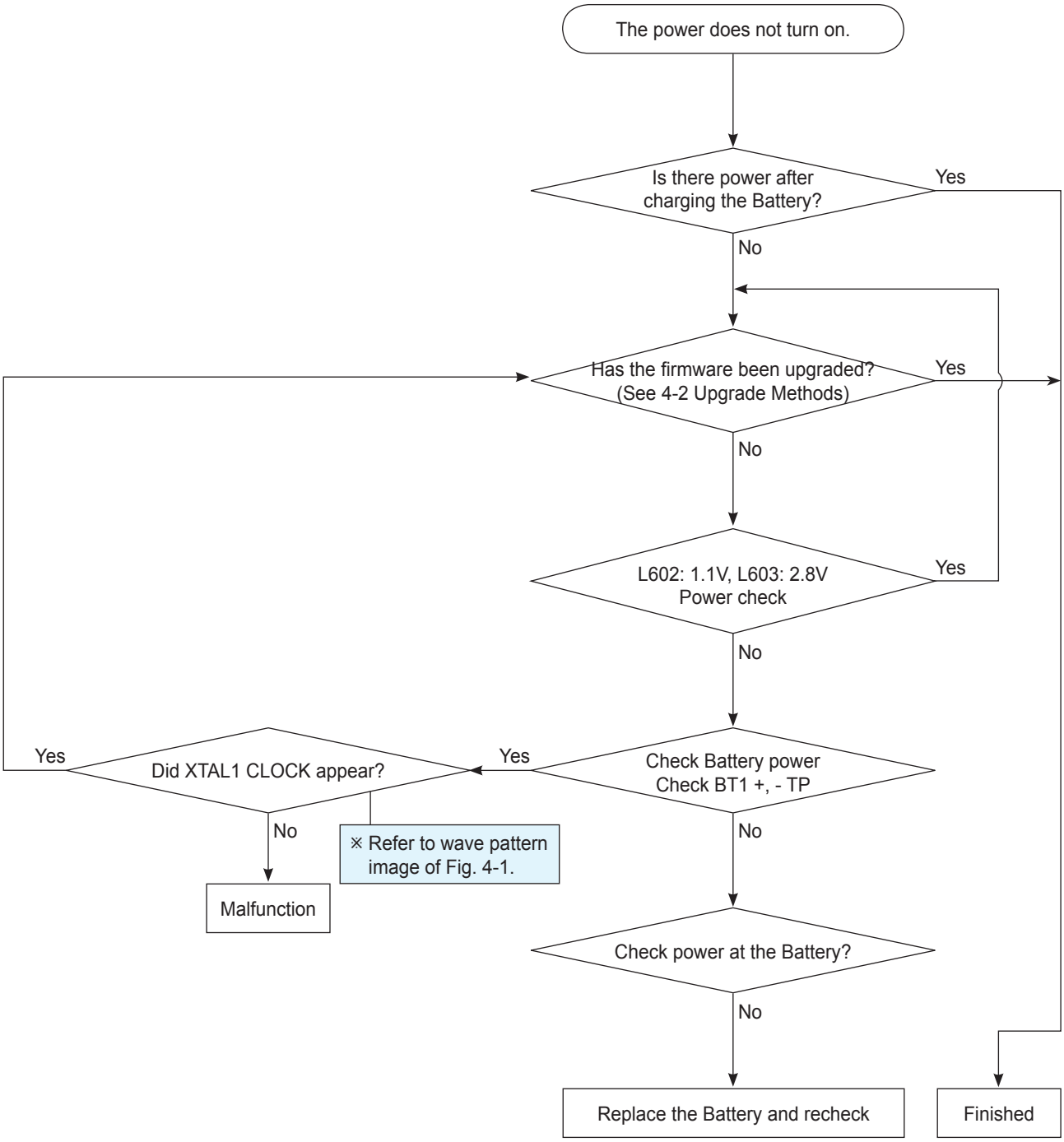
4-1 Checkpoints by Error Mode .....4-2

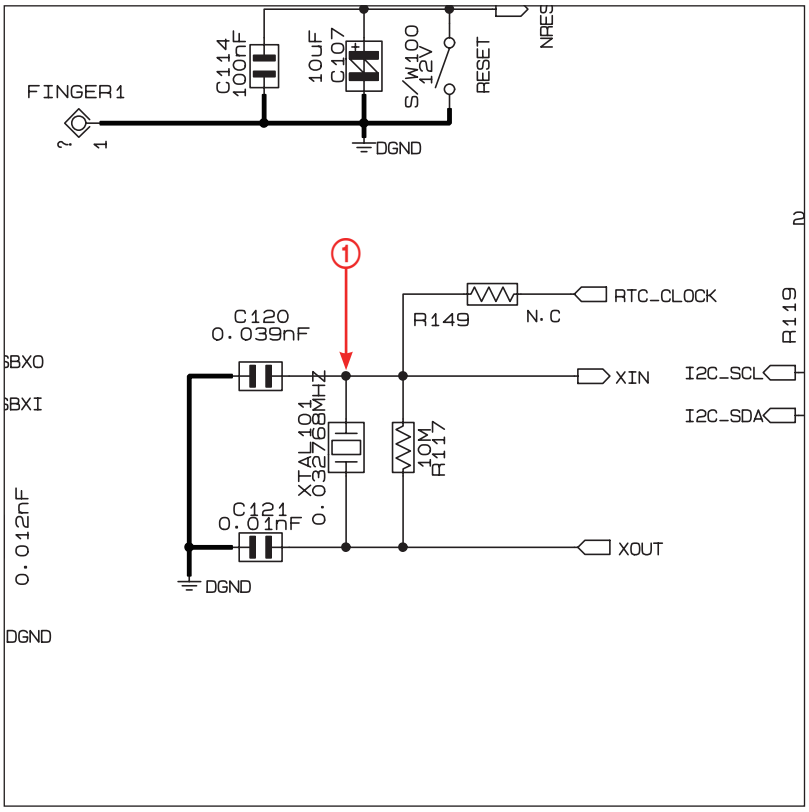
4-2 Upgrade Methods .....4-14

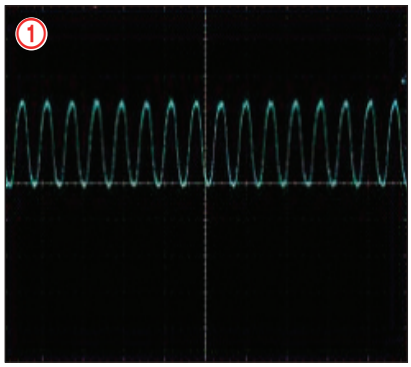
# 4-1 Checkpoints by Error Mode

| Oscilloscope Setting Values | |
|---|---|
| Voltage/DIV | 1V/div |
| TIME/DIV | 10ms/div |

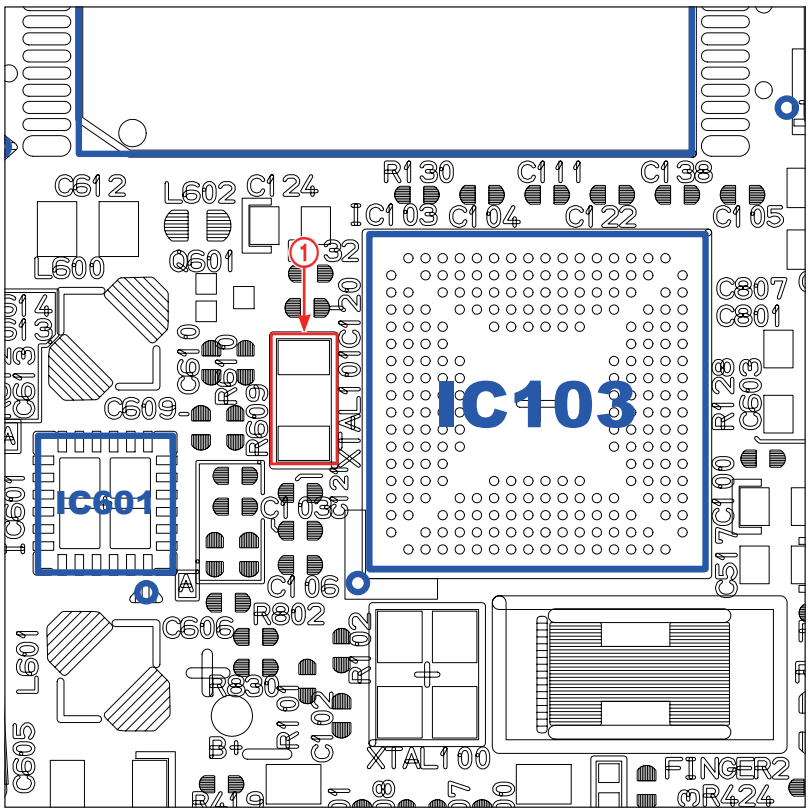
## 4-1-1 If there is no power





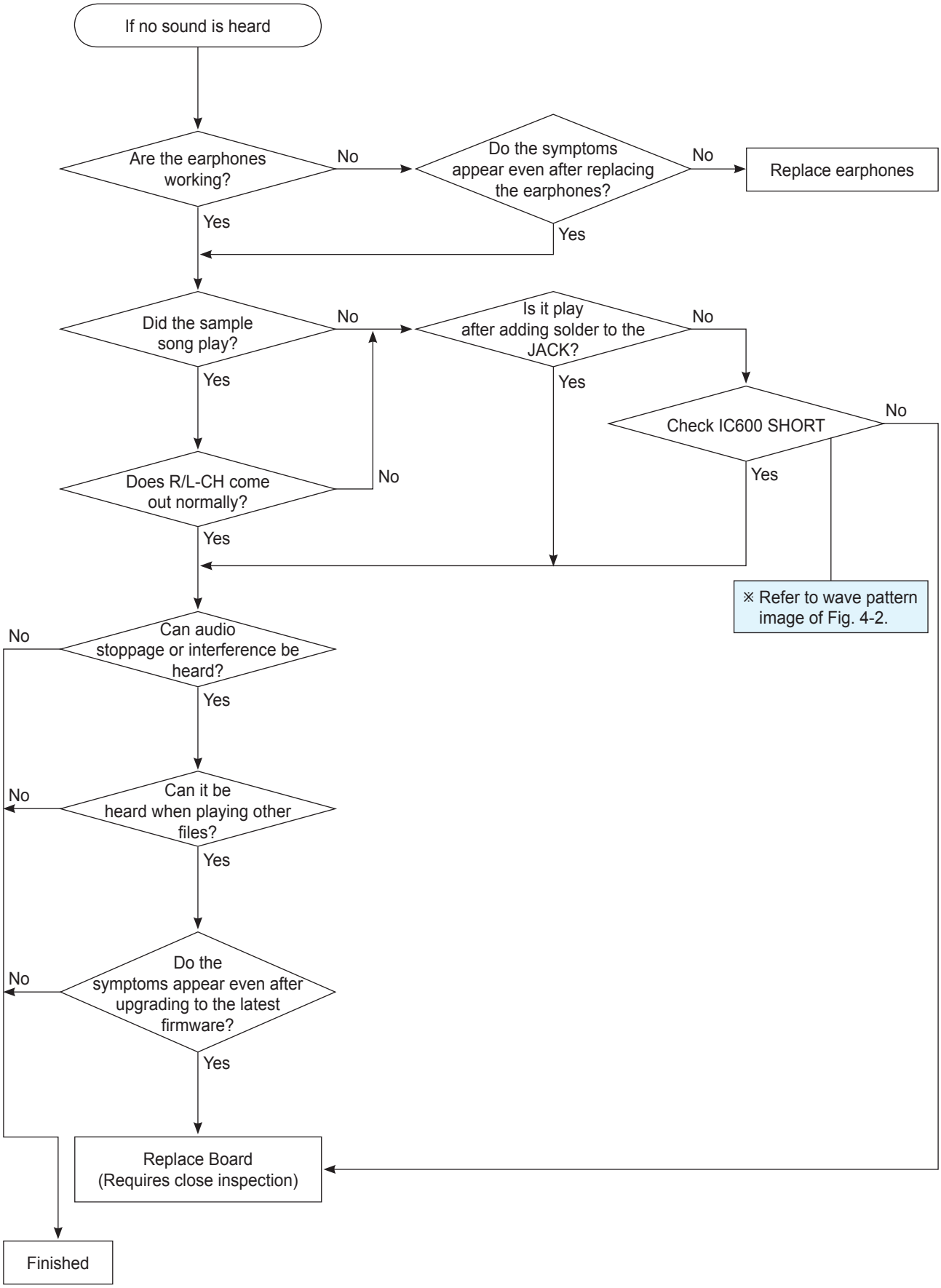
※ S5L8700A02 Page, 7-3

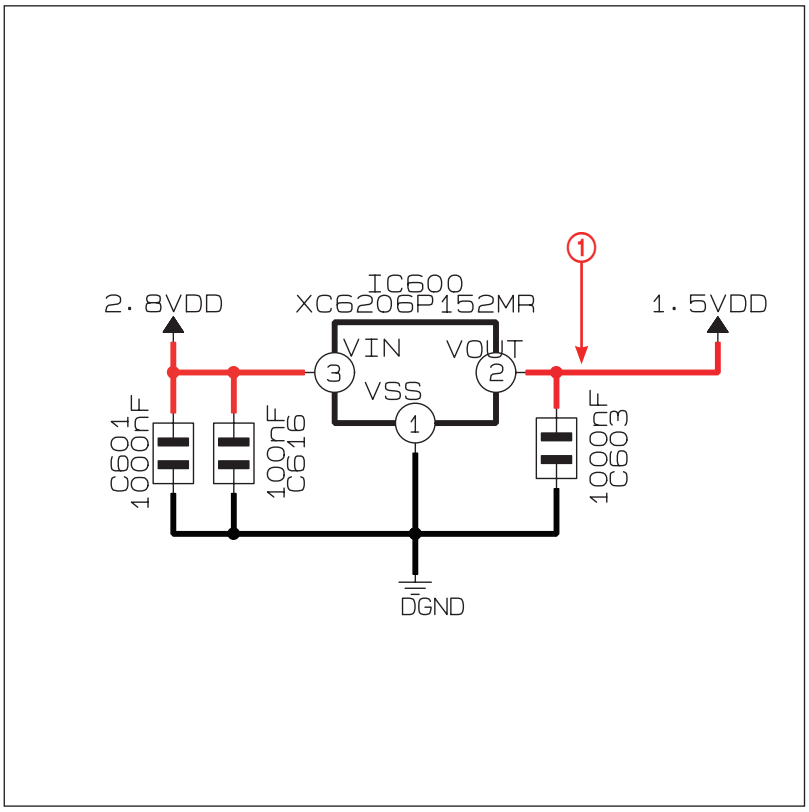


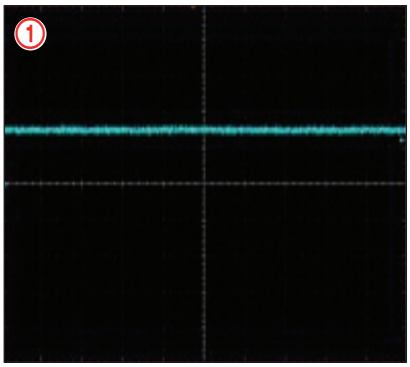

※ PCB Bottom Page, 6-4

<Fig. 4-1>

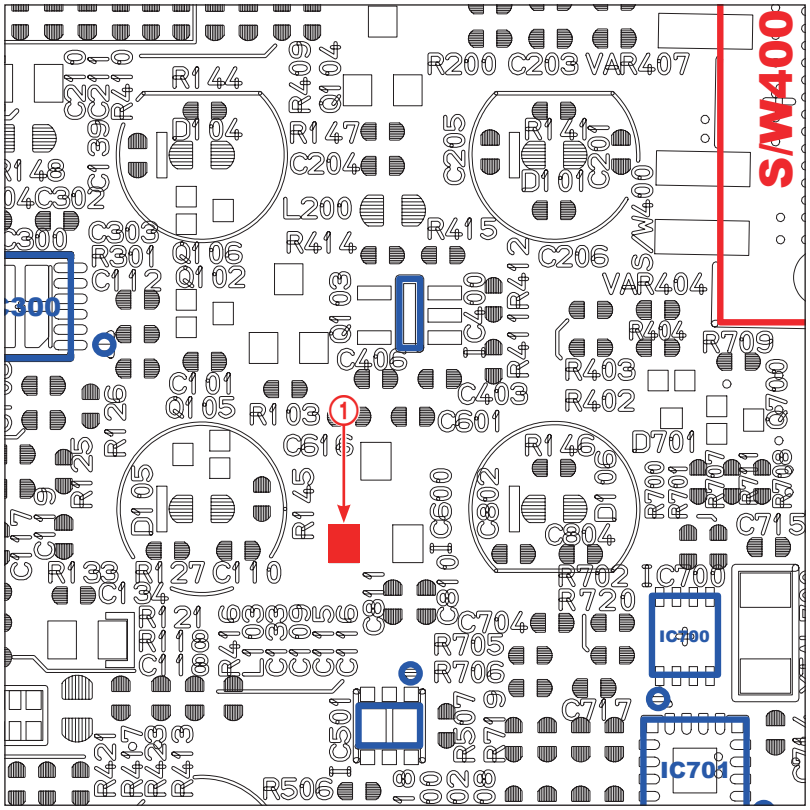
## 4-1-2 If no sound is heard



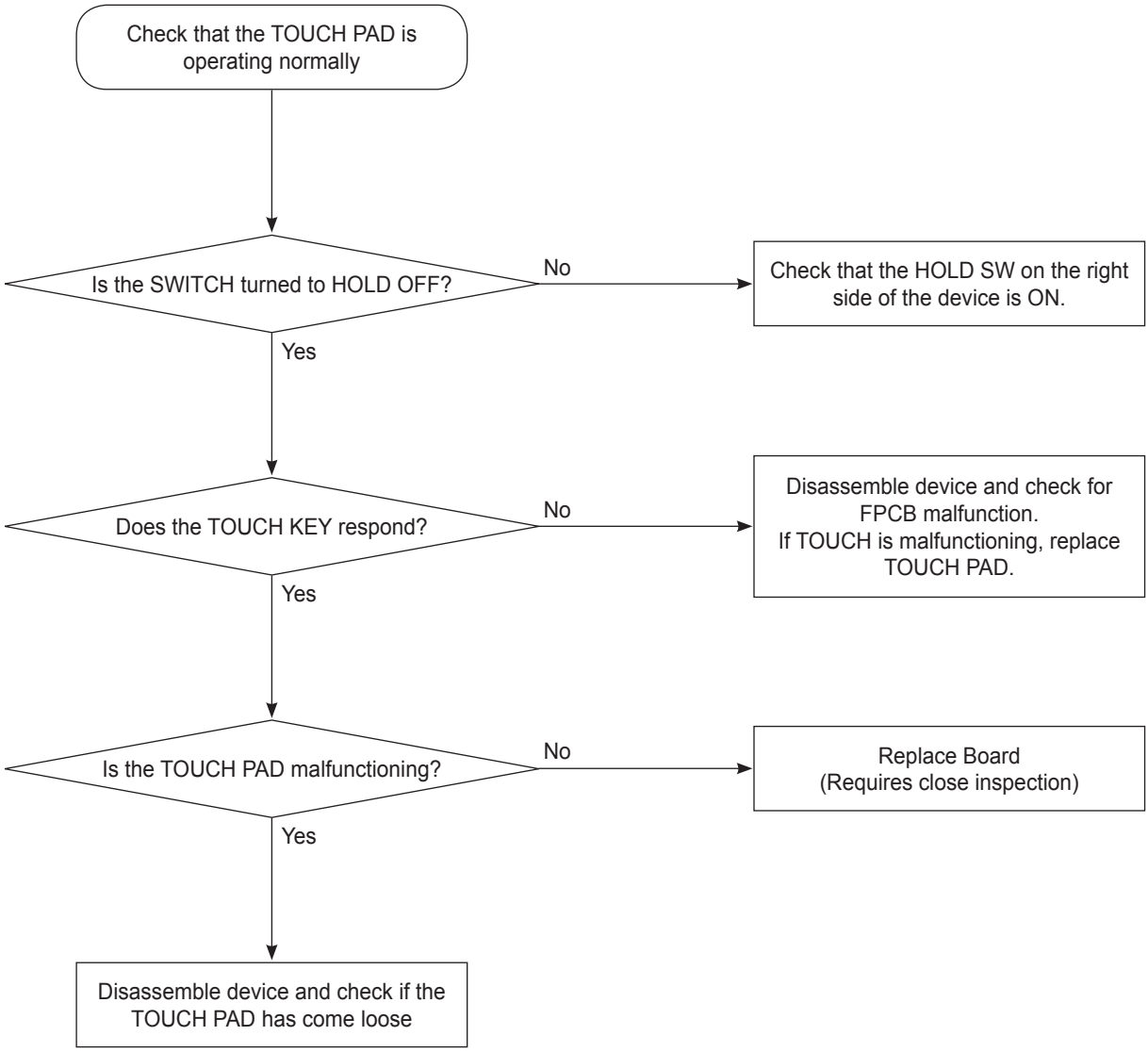


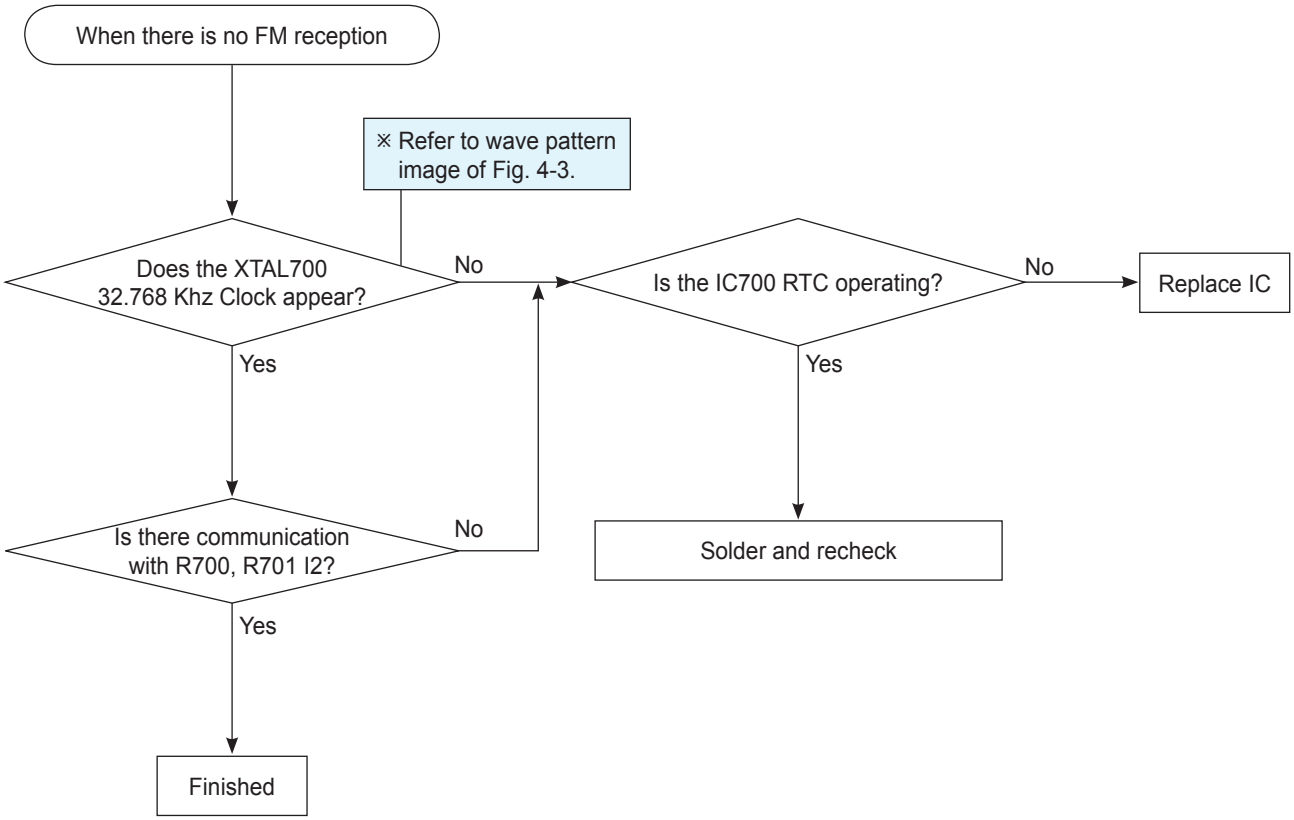

※ POWER Page, 7-8

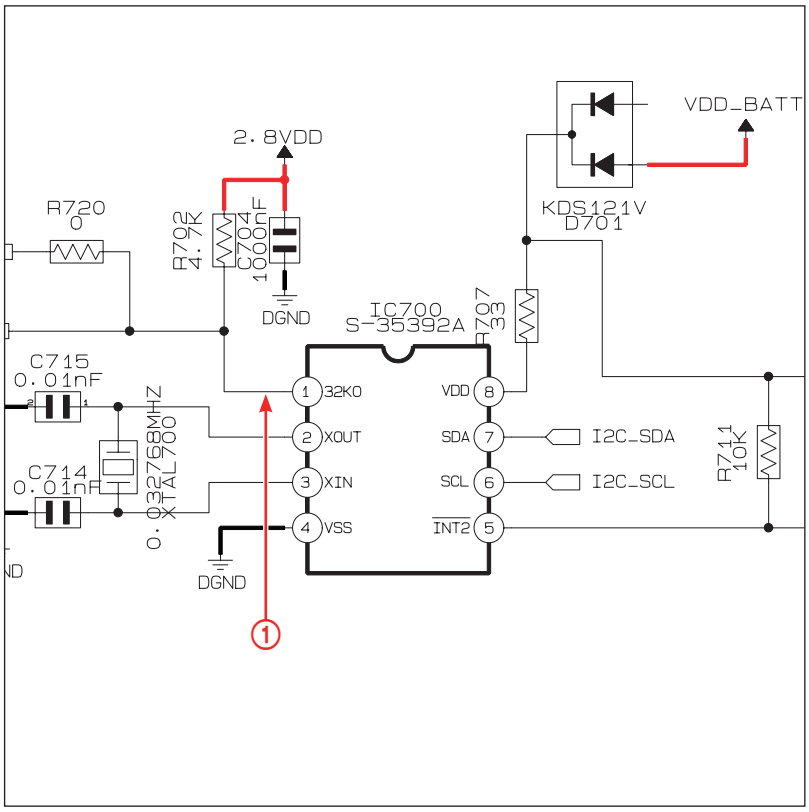


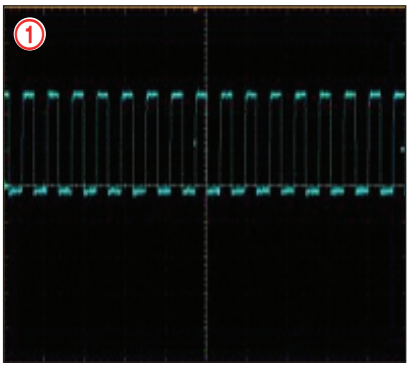
## 4-1-3 Check that the TOUCH PAD is operating normally


Check that the TOUCH PAD is operating normally
Is the SWITCH turned to HOLD OFF?
No
Check that the HOLD SW on the right side of the device is ON.
Yes
Does the TOUCH KEY respond?
No
Disassemble device and check for FPCB malfunction.
If TOUCH is malfunctioning, replace TOUCH PAD.
Yes
Is the TOUCH PAD malfunctioning?
No
Replace Board
(Requires close inspection)
Yes
Disassemble device and check if the TOUCH PAD has come loose

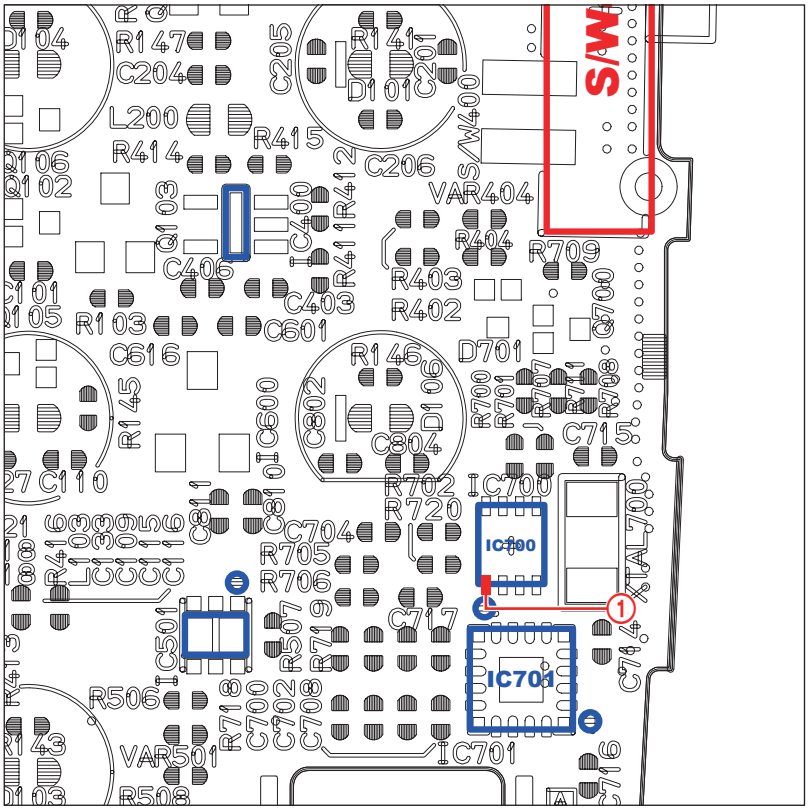
## 4-1-4 When there is no FM reception





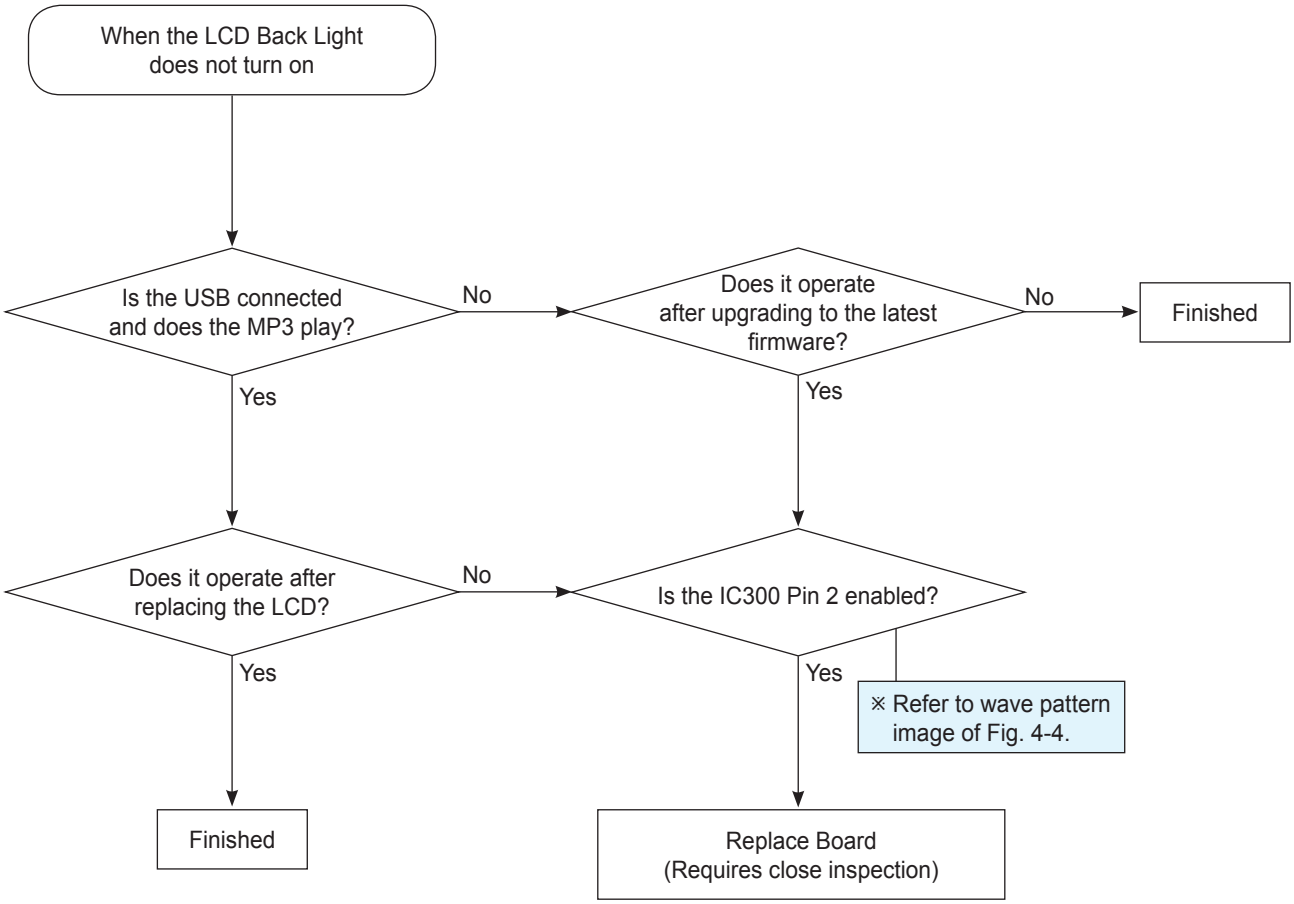

※ FM/RTC Page, 7-9

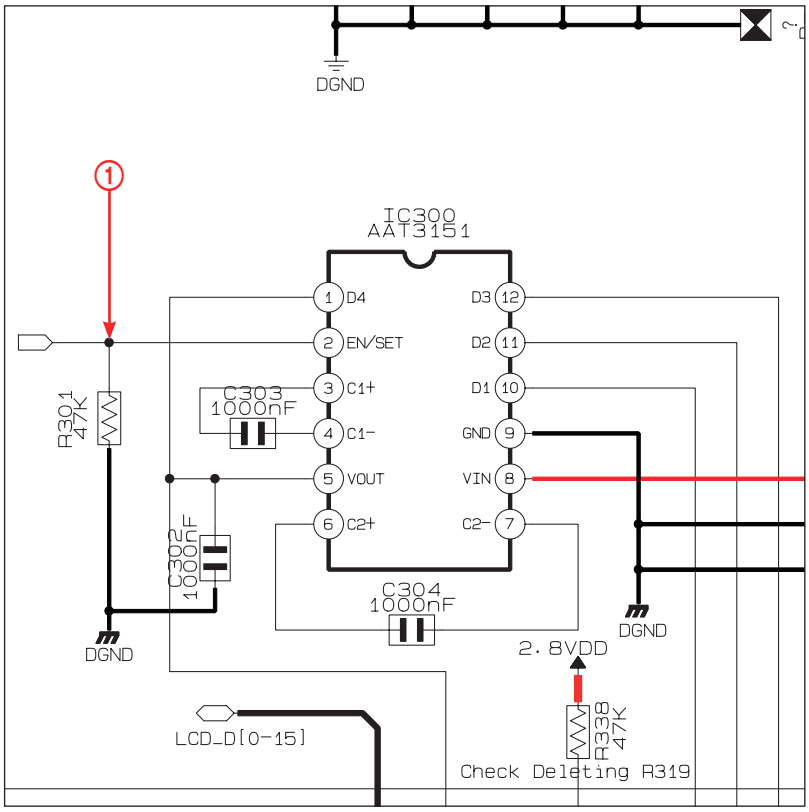


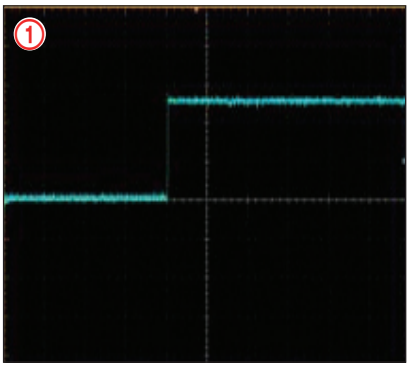

※ PCB Top Page, 6-2

<Fig. 4-3>

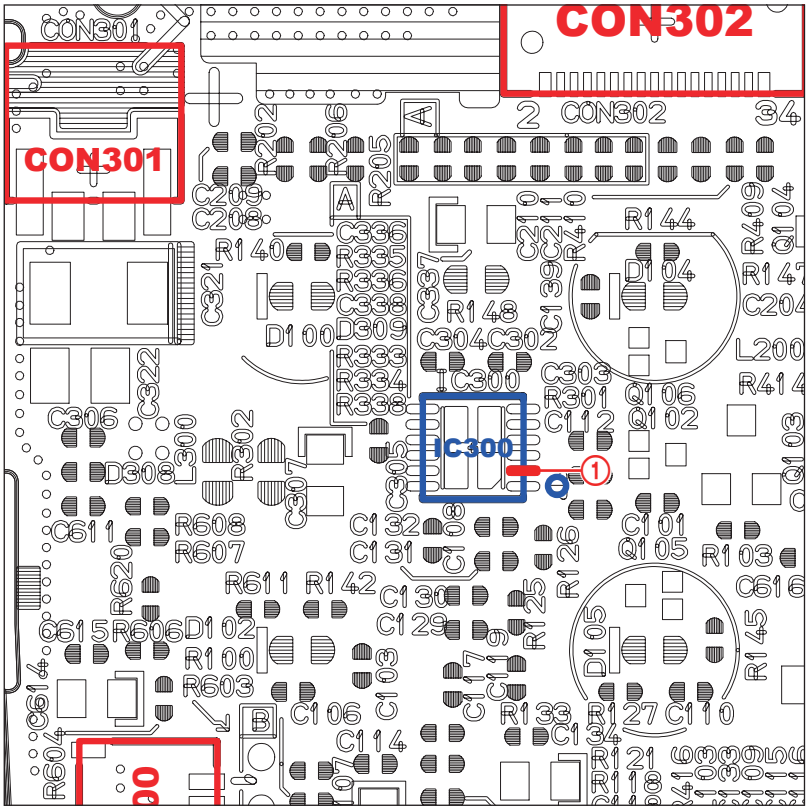
## 4-1-5 When the LCD Back Light does not turn on





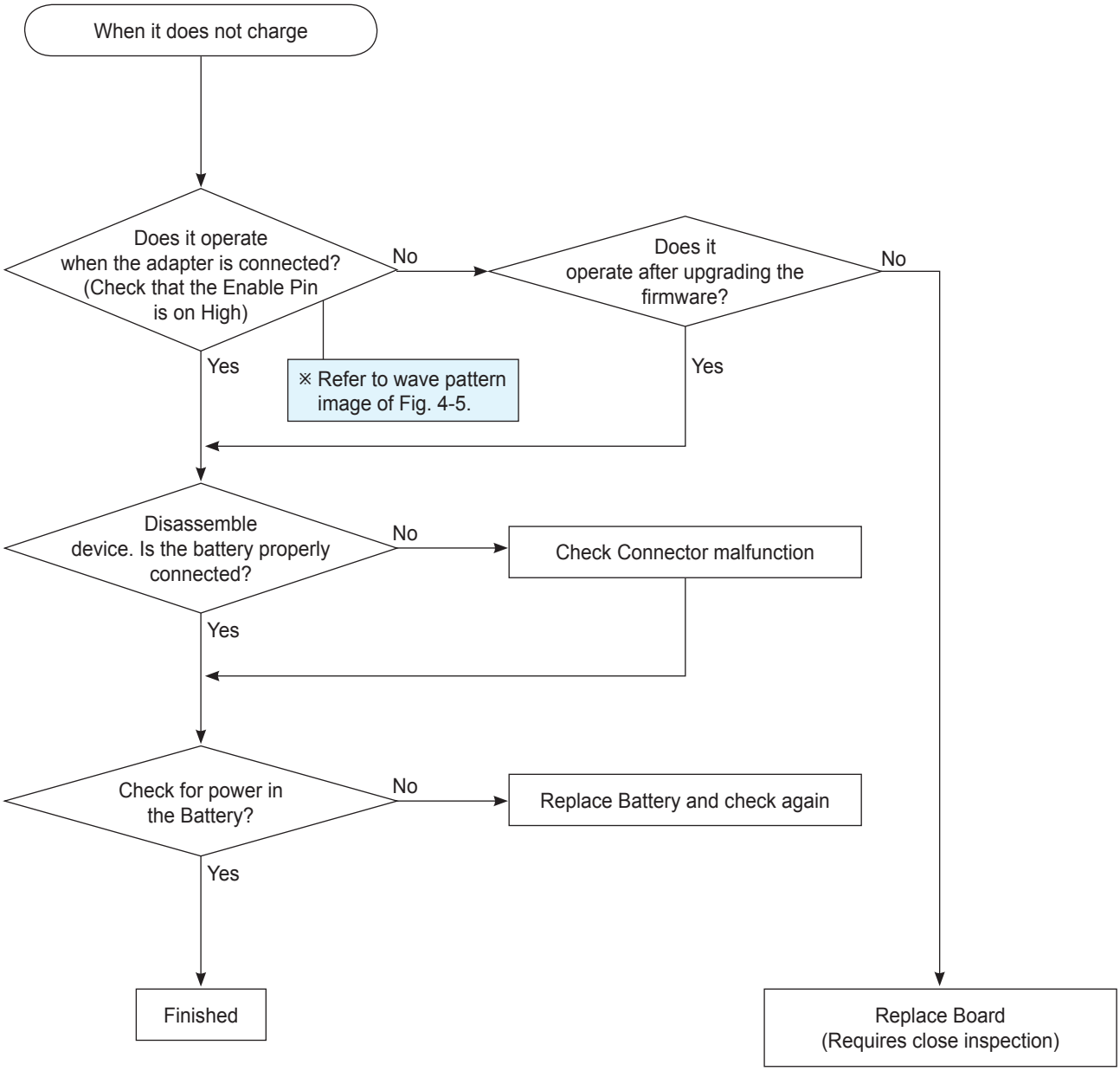

※ LCD/KEY Page, 7-5

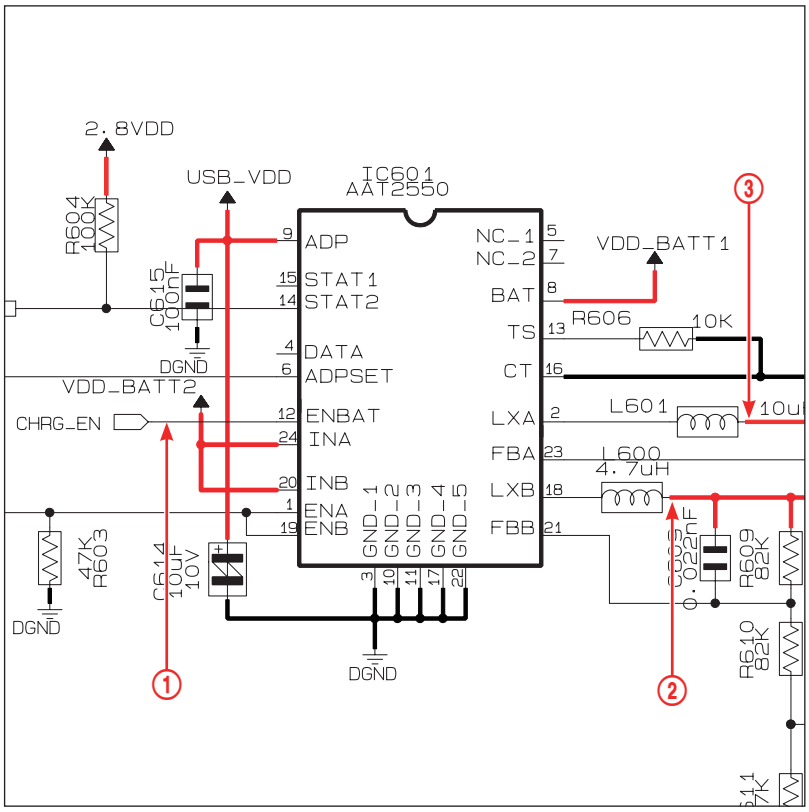



※ PCB Top Page, 6-2

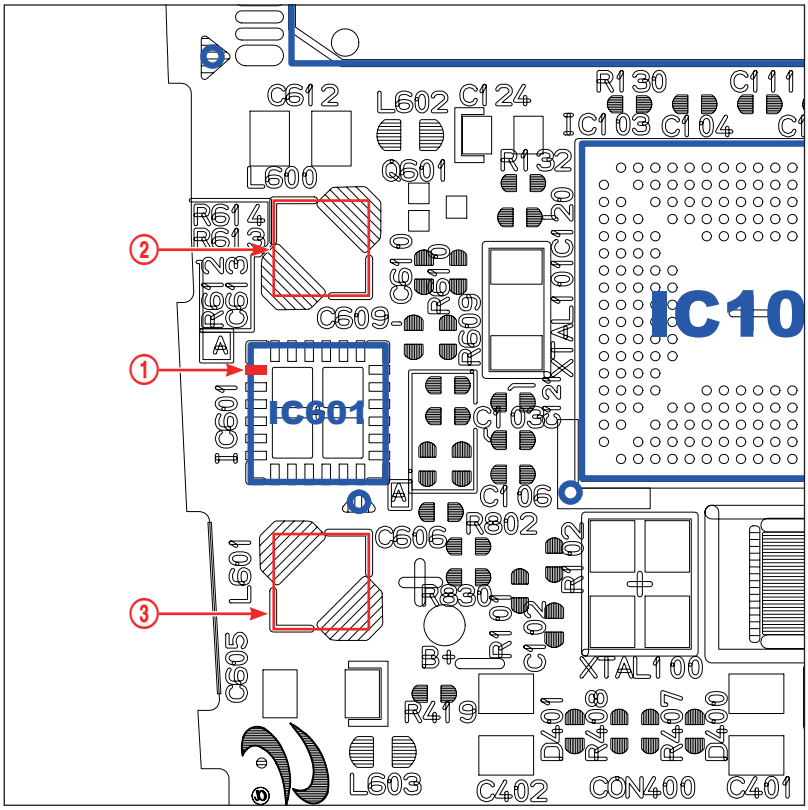
<Fig. 4-4>

## 4-1-6 When it does not charge

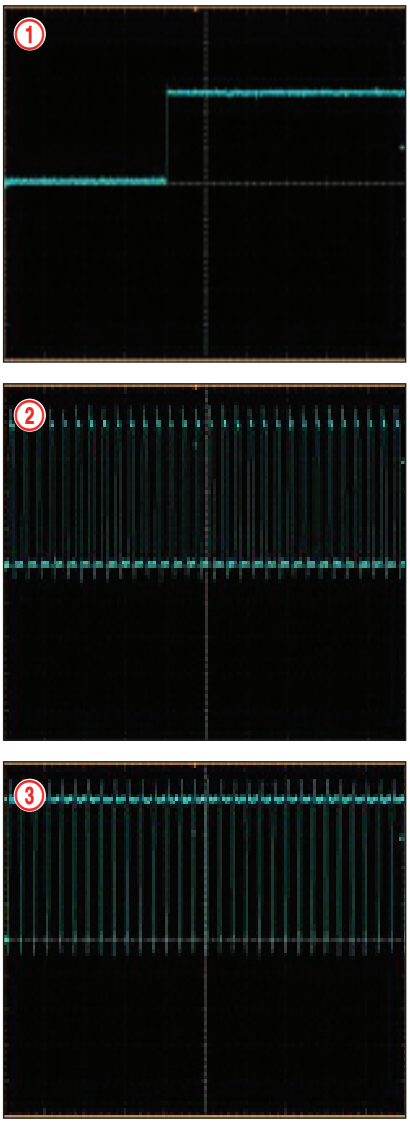

When it does not charge
Does it operate when the adapter is connected? (Check that the Enable Pin is on High)
No
Does it operate after upgrading the firmware?
No
Yes
※ Refer to wave pattern image of Fig. 4-5.
Yes
Disassemble device. Is the battery properly connected?
No
Check Connector malfunction
Yes
Check for power in the Battery?
No
Replace Battery and check again
Yes
Finished
Replace Board (Requires close inspection)




※ POWER Page, 7-8

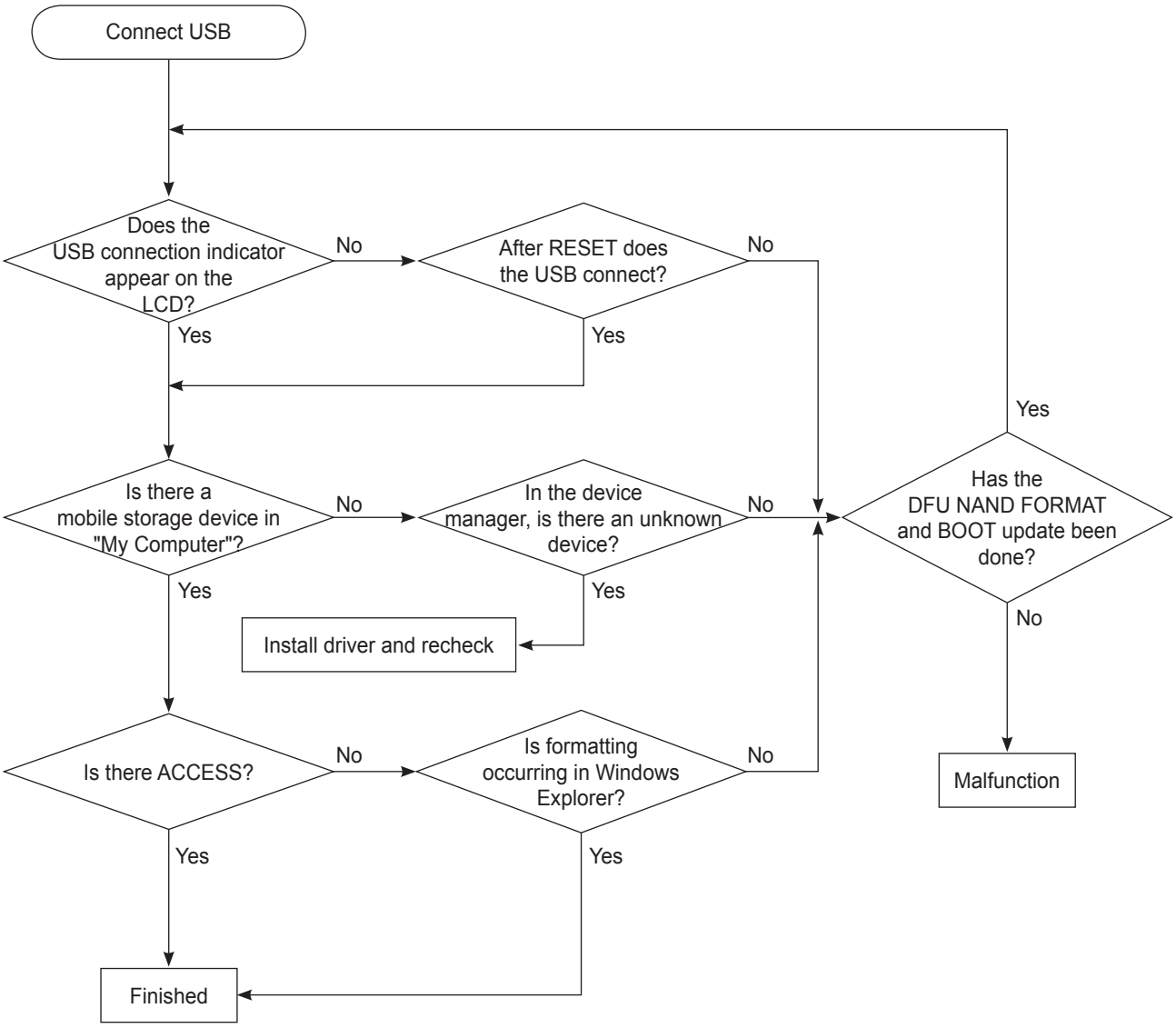



※ PCB Bottom Page, 6-4




<Fig. 4-5>

## 4-1-7 Poor PC Connection



# 4-2 Upgrade Methods

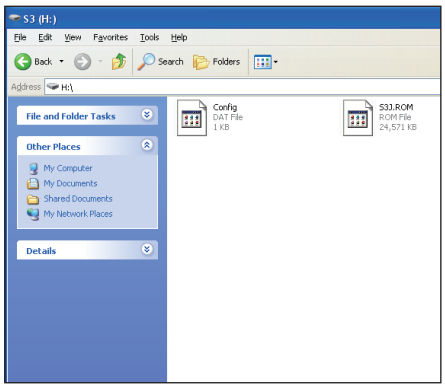
■ If the product does not power on and shows any of the following symptoms, you may try the upgrade methods in this chapter without having to disassemble the product:
- The product does not turn on when the power switch is pressed.
- The product powers on normally but no USB connection can be made.
- The product's icons appear garbled or malfunction.
- Files are corrupted, or the product shows as a "removable storage" in Windows but cannot be accessed.

## 4-2-1 Firmware Upgrade Method

1. When USB is connected check that "USB Mode" is displayed.

2. Latest Firmware [*.ROM] and the Config file [*.DAT] to the portable disk ROOT.

3. Disconnect the USB, press Reset and then turn the power on.




4. As shown in the screen on the side, an Upgrading Firmware message appears and the upgrade commences.

5. Go to "Settings → System → System Information" and check the firmware version.

※ If a Bootloader update is needed, steps 1, 2 and 3 are completed and then step 4 occurs. If the Bootloader update is not needed, only step 4 occurs.

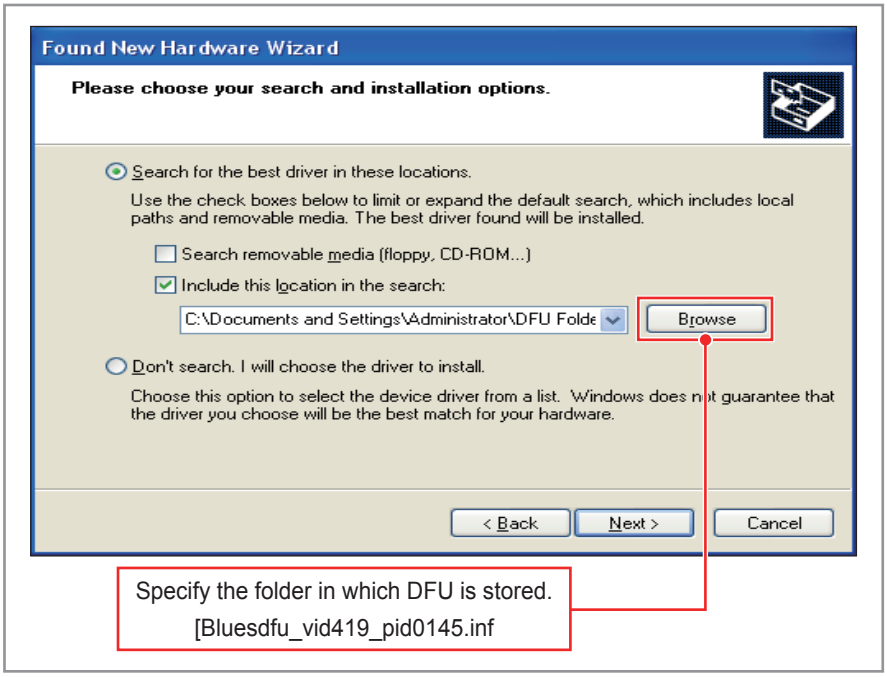
## 4-2-2 Bootloader Upgrade Method

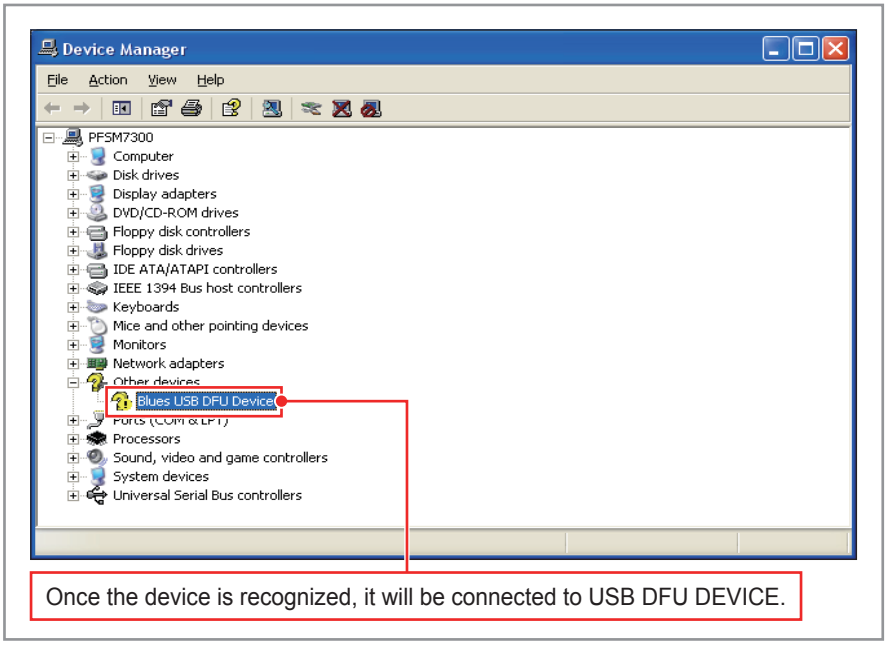
■ **When do you perform this procedure?**: When NAND data is corrupted

■ **How to save the Bootloader in the NAND flash memory**

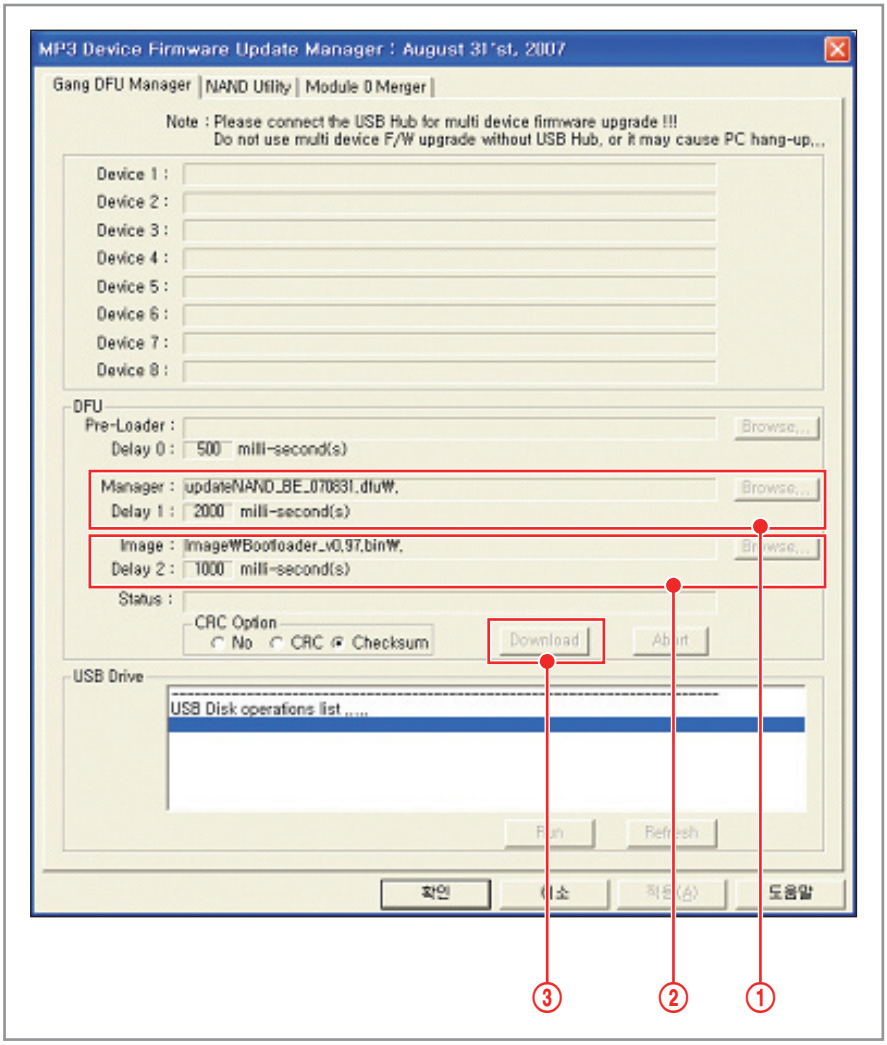
1. With the POWER ON KEY pressed, connect the USB.
   - Press RESET and connect in DFU Mode.
   - After DFU connection, the POWER KEY can be released.

2. After connecting the USB, the device must be installed.
   - After initially installing it once, it connects automatically from thereon.


Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
C:\Documents and Settings\Administrator\DFU Folde
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel
Specify the folder in which DFU is stored.
[Bluesdfu_vid419_pid0145.inf



3. Run the Bluesdfu.exe file in the DFU folder to run the DFU program.
   ① Select "UpdateNAND.bin"
   ② Select "S3_Erase.bin"
   ③ Run Download




④ Disconnect and turn the set's power on.
A "Format…" message will appear and the formatting occurs.

⑤ Push the Reset button and connect it to the PC again.

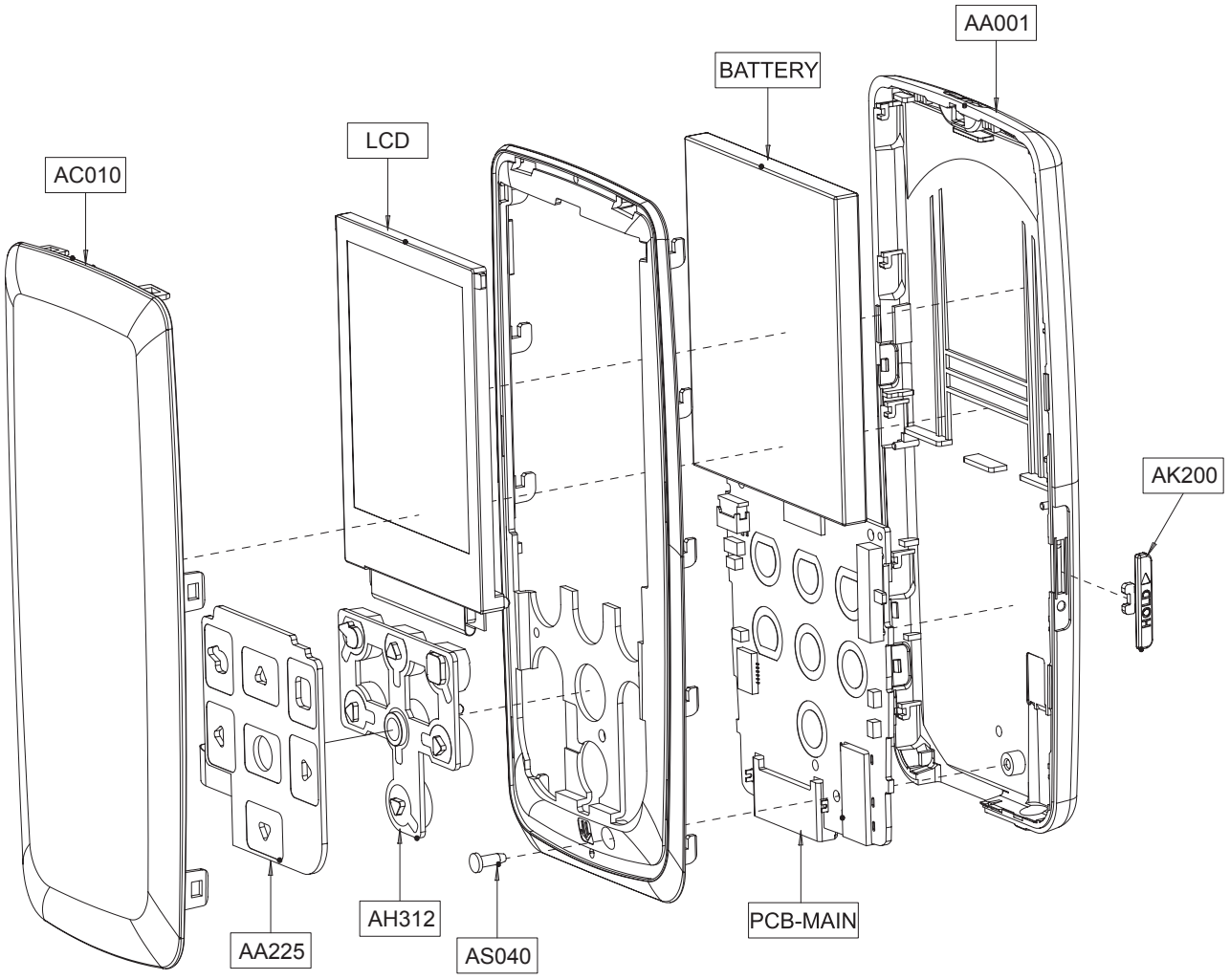
※ If the Browse button is inactive, there is no DFU connection and you must pull out the USB and try again.

# 5. Exploded View & Part List

5-1 Exploded View .....5-2

5-2 Electrical Part List .....5-4

# 5-1 Exploded View



## ■ Part List

| Loc. No. | Code No. | Description;Specification | Q'ty | SNA | Remark |
|---|---|---|---|---|---|
| AA001 | AH97-02625A | ASSY CABINET-BACK;ASSY,YP-S3,BLACK,- | 1 | SA | |
| AA225 | AH97-02482B | ASSY-TOUCH PAD;TOuch PAD ASSY,YP-S3,Syna | 1 | SA | |
| AC010 | AH97-02624A | ASSY CABINET-FRONT;ASSY,YP-S3,BLACK,- | 1 | SA | |
| AH312 | AH61-02541A | HOLDER-LED;YP-S3,PC,T1,W20,L20,BLK,- | 1 | SA | |
| AK200 | AH64-04524A | KNOB-HOLD;YP-S3,PC,T2,W2,L2,-,BLK,-,- | 1 | SA | |
| AS040 | 6003-001166 | SCREW-TAPTITE;CH,+,B,M1.4,L4,NI PLT,SWRC | 1 | SA | |
| BATTERY | AH43-00015A | ERY;363844,YP-S3,Lithium-Polymer,5 | 1 | SA | |
| LCD | AH07-00223A | .CD-TFT;DA-176TC-02,YP-S3,176X220,34X4 | 1 | SA | |
| PCB-MAIN | AH92-02796F | ASSY PCB-MAIN;YP-S3 MAIN,8GB(RDS) | 1 | SA | |

# 5-2 Electrical Part List

| Loc. No. | Part No. | Description;Specification | Q'ty | SNA | Remark |
|---|---|---|---|---|---|
| | AH92-02796F | ASSY PCB-MAIN;YP-S3 MAIN,8GB(RDS) | 1 | SA | |
| C100 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C101 | 2203-000254 | C-CER,CHIP;10nF,10%,16V,X7R,1005 | 1 | SA | |
| C102 | 2203-000330 | C-CER,CHIP;0.012nF,5%,50V,C0G,1005 | 1 | SA | |
| C103 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C104 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C105 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C106 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C107 | 2203-006683 | C-CER,CHIP;4700nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C108 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C109 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C110 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C111 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C112 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C113 | 2203-000330 | C-CER,CHIP;0.012nF,5%,50V,C0G,1005 | 1 | SA | |
| C114 | 2007-000775 | R-CHIP;33Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| C115 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C116 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C117 | 2203-000254 | C-CER,CHIP;10nF,10%,16V,X7R,1005 | 1 | SA | |
| C118 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C119 | 2203-000254 | C-CER,CHIP;10nF,10%,16V,X7R,1005 | 1 | SA | |
| C120 | 2203-000854 | C-CER,CHIP;0.039nF,5%,50V,C0G,1005 | 1 | SA | |
| C121 | 2203-000278 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,100 | 1 | SA | |
| C122 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C123 | 2203-006646 | C-CER,CHIP;10000nF,10%,6.3V,X5R,201 | 1 | SNA | |
| C124 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C129 | 2203-005993 | C-CER,CHIP;68NF,10%,16V,X7R,TP,1005 | 1 | SA | |
| C130 | 2203-002487 | C-CER,CHIP;4.7nF,10%,25V,X7R,1005 | 1 | SA | |
| C131 | 2203-002487 | C-CER,CHIP;4.7nF,10%,25V,X7R,1005 | 1 | SA | |
| C132 | 2203-005993 | C-CER,CHIP;68NF,10%,16V,X7R,TP,1005 | 1 | SA | |
| C133 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C134 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C138 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C139 | 2203-000254 | C-CER,CHIP;10nF,10%,16V,X7R,1005 | 1 | SA | |
| C200 | 2203-006646 | C-CER,CHIP;10000nF,10%,6.3V,X5R,201 | 1 | SNA | |
| C201 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C202 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C203 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C204 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C205 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C206 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C207 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C208 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C209 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C210 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C211 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C301 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C302 | 2203-005900 | C-CER,CHIP;1000NF,+80-20%,10V,Y5V,1 | 1 | SA | |
| C303 | 2203-005900 | C-CER,CHIP;1000NF,+80-20%,10V,Y5V,1 | 1 | SA | |
| C304 | 2203-005900 | C-CER,CHIP;1000NF,+80-20%,10V,Y5V,1 | 1 | SA | |
| C305 | 2203-005900 | C-CER,CHIP;1000NF,+80-20%,10V,Y5V,1 | 1 | SA | |
| C306 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C307 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C313 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C321 | 2404-001491 | C-TA,CHIP;100##F,##20%,6.3V,-,REEL, | 1 | SA | |
| C322 | 2203-006474 | C-CER,CHIP;22000nF,20%,6.3V,X5R,201 | 1 | SA | |
| C336 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C337 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C338 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C401 | 2203-006474 | C-CER,CHIP;22000nF,20%,6.3V,X5R,201 | 1 | SA | |
| C402 | 2203-006474 | C-CER,CHIP;22000nF,20%,6.3V,X5R,201 | 1 | SA | |
| C403 | 2203-005900 | C-CER,CHIP;1000NF,+80-20%,10V,Y5V,1 | 1 | SA | |
| C406 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C515 | 2404-001407 | C-TA,CHIP;330uF,20%,2.5V,-,REEL,352 | 1 | SA | |
| C516 | 2404-001407 | C-TA,CHIP;330uF,20%,2.5V,-,REEL,352 | 1 | SA | |
| C517 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C601 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C603 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C605 | 2404-001418 | C-TA,CHIP;10uF,20%,25V,-,TP,3216 | 1 | SA | |
| C609 | 2203-000627 | C-CER,CHIP;0.022nF,5%,50V,C0G,1005 | 1 | SA | |
| C610 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C611 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C612 | 2203-006474 | C-CER,CHIP;22000nF,20%,6.3V,X5R,201 | 1 | SA | |
| C613 | 2203-000627 | C-CER,CHIP;0.022nF,5%,50V,C0G,1005 | 1 | SA | |
| C614 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C615 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C616 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| C700 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C701 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C702 | 2203-000254 | C-CER,CHIP;10nF,10%,16V,X7R,1005 | 1 | SA | |
| C703 | 2203-000254 | C-CER,CHIP;10nF,10%,16V,X7R,1005 | 1 | SA | |
| C704 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C705 | 2203-006474 | C-CER,CHIP;22000nF,20%,6.3V,X5R,201 | 1 | SA | |
| C706 | 2203-006474 | C-CER,CHIP;22000nF,20%,6.3V,X5R,201 | 1 | SA | |
| C707 | 2404-001491 | C-TA,CHIP;100##F,##20%,6.3V,-,REEL, | 1 | SA | |
| C714 | 2203-000278 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,100 | 1 | SA | |
| C715 | 2203-000278 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,100 | 1 | SA | |
| C716 | 2203-000233 | C-CER,CHIP;0.1nF,5%,50V,C0G,1005 | 1 | SA | |
| C717 | 2203-005900 | C-CER,CHIP;1000NF,+80-20%,10V,Y5V,1 | 1 | SA | |
| C800 | 2203-005900 | C-CER,CHIP;1000NF,+80-20%,10V,Y5V,1 | 1 | SA | |
| C801 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C802 | 2203-000627 | C-CER,CHIP;0.022nF,5%,50V,C0G,1005 | 1 | SA | |
| C804 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C805 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C806 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C807 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C809 | 2404-001381 | C-TA,CHIP;10##F,20%,10V,-,TP,1608(0 | 1 | SA | |
| C810 | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V, | 1 | SA | |
| C811 | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| CON300 | 3708-002265 | CONNECTOR-FPC/FFC/PIC;8P,0.5mm,SMD- | 1 | SA | |
| CON301 | 3710-001436 | SOCKET-BOARD TO BOARD;2P,1R,1.27mm, | 1 | SA | |
| CON302 | 3711-006119 | HEADER-BOARD TO BOARD;BOX,34P,2R,0. | 1 | SA | |
| CON400 | 3710-002410 | CONNECTOR-SOCKET;24P,1R,0.5mm,SMD-A | 1 | SA | |
| D100 | 0601-002094 | LED;SMD(TOP VIEW),WHT,1.6X0.8X0.4M | 1 | SA | |
| D101 | 0601-002094 | LED;SMD(TOP VIEW),WHT,1.6X0.8X0.4M | 1 | SA | |
| D102 | 0601-002037 | LED;SMD,BLUE,1.6x0.8x0.4mm,465/470 | 1 | SA | |
| D103 | 0601-002037 | LED;SMD,BLUE,1.6x0.8x0.4mm,465/470 | 1 | SA | |
| D104 | 0601-002037 | LED;SMD,BLUE,1.6x0.8x0.4mm,465/470 | 1 | SA | |
| D105 | 0601-002037 | LED;SMD,BLUE,1.6x0.8x0.4mm,465/470 | 1 | SA | |
| D106 | 0601-002037 | LED;SMD,BLUE,1.6x0.8x0.4mm,465/470 | 1 | SA | |
| D308 | 1405-001093 | VARISTOR;14V,20A,1x0.5x0.6mm,TP | 1 | SA | |
| D309 | 1405-001093 | VARISTOR;14V,20A,1x0.5x0.6mm,TP | 1 | SA | |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| Loc. No. | Part No. | Description;Specification | Q'ty | SNA | Remark |
|---|---|---|---|---|---|
| D400 | 1405-001138 | VARISTOR;18Vdc,1A,1x0.5x0.6mm,TP | 1 | SNA | |
| D401 | 1405-001138 | VARISTOR;18Vdc,1A,1x0.5x0.6mm,TP | 1 | SNA | |
| D402 | 0406-001254 | DIODE-TVS;UCLAMP0501P,6/-/-V,200W,S | 1 | SA | |
| D403 | 0406-001239 | DIODE-TVS;RClamp0502B,6V,125W,SOT-5 | 1 | SA | |
| D600 | 0401-000164 | DIODE-SWITCHING;KDS121V,80V,100MA,V | 1 | SA | |
| D601 | 0401-000164 | DIODE-SWITCHING;KDS121V,80V,100MA,V | 1 | SA | |
| D602 | 0404-001089 | DIODE-SCHOTTKY;RB551V-30,20V,500MA, | 1 | SA | |
| D701 | 0401-000164 | DIODE-SWITCHING;KDS121V,80V,100MA,V | 1 | SA | |
| FINGER1 | AH63-01702A | GASKET;-,BeCu / SUS,3.1,2.0,3.94,-, | 1 | SA | |
| FINGER2 | AH63-01702A | GASKET;-,BeCu / SUS,3.1,2.0,3.94,-, | 1 | SA | |
| FPC | AH97-02537A | ASSY-TOUCH PAD FPCB;LAIFU,YP-S3 Tou | 1 | SA | |
| IC103 | 0902-001894 | IC-MICROPROCESSOR;S5L8700X,24MHz,32 | 1 | SA | |
| IC200 | 1105-001659 | IC-DRAM;K4M561633,-,256Mbit,4x4Mx16 | 1 | SA | |
| IC201 | 1107-001715 | IC-FLASH MEMORY;K9HCG08U1M-PCB0,8GB | 1 | SA | |
| IC300 | 1203-003708 | IC-DC/DC CONVERTER;AAT3151,DFN,12P, | 1 | SA | |
| IC400 | 0801-002800 | IC-CMOS LOGIC;7SV08,AND GATE,SC-70, | 1 | SA | |
| IC501 | 0505-002229 | FET-SILICON;FDMA1028NZ,N,20V,3.7A,0 | 1 | SA | |
| IC600 | 1203-003549 | IC-POSI.FIXED REG.;S-1206B15,SOT-23 | 1 | SA | |
| IC601 | 1203-004684 | IC-DC/DC CONVERTER;AAT2550,QFN,24P, | 1 | SA | |
| IC700 | 0909-001057 | IC-REAL TIME CLOCK;-,SNT-8A,8P,-,32 | 1 | SA | |
| IC701 | 1204-002721 | IC-TUNER;Si4703-C19-GMR,QFN,20P,3x3 | 1 | SA | |
| IC800 | 1002-001529 | IC-A/D&D/A CONVERTER;WM1800GEFL,24, | 1 | SA | |
| JACK500 | 3722-002665 | JACK-EAR PHONE;5P(3Pole),AU,BLK,SMD | 1 | SA | |
| JFET600 | 0505-001174 | FET-SILICON;SI2302ADS,N,20V,2.4A,65 | 1 | SA | |
| JFET601 | 0505-001930 | FET-SILICON;MCH3319,P,-12V,-2.6A,MA | 1 | SA | |
| L103 | 3301-001148 | BEAD-SMD;60ohm,1608,TP,-,- | 1 | SA | |
| L200 | 3301-001148 | BEAD-SMD;60ohm,1608,TP,-,- | 1 | SA | |
| L300 | 3301-001148 | BEAD-SMD;60ohm,1608,TP,-,- | 1 | SA | |
| L400 | 3301-001148 | BEAD-SMD;60ohm,1608,TP,-,- | 1 | SA | |
| L402 | 2703-002203 | INDUCTOR-SMD;15nH,5%,1005 | 1 | SA | |
| L403 | 3301-001364 | BEAD-SMD;1000ohm,1608,150mA,TP,1085 | 1 | SA | |
| L404 | 3301-001364 | BEAD-SMD;1000ohm,1608,150mA,TP,1085 | 1 | SA | |
| L501 | 3301-001364 | BEAD-SMD;1000ohm,1608,150mA,TP,1085 | 1 | SA | |
| L502 | 3301-001364 | BEAD-SMD;1000ohm,1608,150mA,TP,1085 | 1 | SA | |
| L503 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA | |
| L505 | 3301-001950 | BEAD-SMD;120,1608,TP,-,120/100MHz | 1 | SA | |
| L600 | 2703-002653 | INDUCTOR-SMD;4.7UH,20%,2828 | 1 | SA | |
| L601 | 2703-002829 | INDUCTOR-SMD;10uH,20%,2828 | 1 | SA | |
| L602 | 3301-001148 | BEAD-SMD;60ohm,1608,TP,-,- | 1 | SA | |
| L603 | 3301-001148 | BEAD-SMD;60ohm,1608,TP,-,- | 1 | SA | |
| L700 | 2703-000275 | INDUCTOR-SMD;33UH,10%,2012 | 1 | SA | |
| PCB | AH41-01102A | PCB-MAIN;YP-S3,Lead free, Epoxy,8,N | 0.25 | SNA | |
| Q102 | 0504-001193 | TR-DIGITAL;KRC408V,NPN,100MW,22K/47 | 1 | SA | |
| Q103 | 0505-001930 | FET-SILICON;MCH3319,P,-12V,-2.6A,MA | 1 | SA | |
| Q104 | 0505-001930 | FET-SILICON;MCH3319,P,-12V,-2.6A,MA | 1 | SA | |
| Q105 | 0504-001193 | TR-DIGITAL;KRC408V,NPN,100MW,22K/47 | 1 | SA | |
| Q106 | 0504-001193 | TR-DIGITAL;KRC408V,NPN,100MW,22K/47 | 1 | SA | |
| Q600 | 0504-001193 | TR-DIGITAL;KRC408V,NPN,100MW,22K/47 | 1 | SA | |
| Q601 | 0504-001193 | TR-DIGITAL;KRC408V,NPN,100MW,22K/47 | 1 | SA | |
| Q602 | 0504-001193 | TR-DIGITAL;KRC408V,NPN,100MW,22K/47 | 1 | SA | |
| Q700 | 0504-001170 | TR-DIGITAL;KRA304V,PNP,100MW,47K/47 | 1 | SA | |
| R100 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R101 | 2007-007001 | R-CHIP;3.9Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R102 | 2007-000138 | R-CHIP;100ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R103 | 2007-000566 | R-CHIP;220Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R104 | 2007-000170 | R-CHIP;1Mohm,5%,1/16W,TP,1005 | 1 | SA | |

| Loc. No. | Part No. | Description;Specification | Q'ty | SNA | Remark |
|---|---|---|---|---|---|
| R117 | 2007-007100 | R-CHIP;10Mohm,5%,1/16W,TP,1005 | 1 | SA | |
| R118 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R119 | 2007-001325 | R-CHIP;3.3Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R120 | 2007-001325 | R-CHIP;3.3Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R121 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R125 | 2007-000982 | R-CHIP;5.6Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R126 | 2007-000982 | R-CHIP;5.6Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R127 | 2007-007587 | R-CHIP;3.6Kohm,1%,1/16W,TP,1005 | 1 | SA | |
| R128 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R130 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R132 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R133 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R140 | 2007-001313 | R-CHIP;330ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R141 | 2007-001313 | R-CHIP;330ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R142 | 2007-000139 | R-CHIP;220ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R143 | 2007-000139 | R-CHIP;220ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R144 | 2007-000139 | R-CHIP;220ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R145 | 2007-000138 | R-CHIP;100ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R146 | 2007-000139 | R-CHIP;220ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R147 | 2007-000566 | R-CHIP;220Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R200 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R202 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R205 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R206 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R301 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R302 | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608 | 1 | SA | |
| R334 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R335 | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R338 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R400 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R401 | 2007-000155 | R-CHIP;27Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R402 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R403 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R404 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R405 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R406 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R407 | 2007-007199 | R-CHIP;2.7ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R408 | 2007-007199 | R-CHIP;2.7ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R409 | 2007-000151 | R-CHIP;15Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R410 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R411 | 2007-000146 | R-CHIP;6.8Kohm,5%,1/16W,TP,1005 | 1 | SNA | |
| R412 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R413 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R414 | 2007-000143 | R-CHIP;4.7Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R415 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R417 | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R418 | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R419 | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R420 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R421 | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R422 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA | |
| R423 | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R501 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R502 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R504 | 2007-000143 | R-CHIP;4.7Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R505 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |

| Loc. No. | Part No. | Description;Specification | Q'ty | SNA | Remark |
|---|---|---|---|---|---|
| R506 | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R507 | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R508 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R517 | 2007-000139 | R-CHIP;220ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R518 | 2007-000139 | R-CHIP;220ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R525 | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R600 | 2007-000155 | R-CHIP;27Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R601 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R602 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R603 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R604 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R606 | 2007-007142 | R-CHIP;10Kohm,1%,1/16W,TP,1005 | 1 | SA | |
| R607 | 2007-008517 | R-CHIP;240Kohm,1%,1/16W,TP,1005 | 1 | SA | |
| R608 | 2007-007107 | R-CHIP;100Kohm,1%,1/16W,TP,1005 | 1 | SA | |
| R609 | 2007-000161 | R-CHIP;82Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R610 | 2007-000161 | R-CHIP;82Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R611 | 2007-007138 | R-CHIP;27Kohm,1%,1/16W,TP,1005 | 1 | SA | |
| R612 | 2007-008304 | R-CHIP;300Kohm,1%,1/16W,TP,1005 | 1 | SA | |
| R613 | 2007-007589 | R-CHIP;68Kohm,1%,1/16W,TP,1005 | 1 | SA | |
| R614 | 2007-007132 | R-CHIP;15Kohm,1%,1/16W,TP,1005 | 1 | SA | |
| R615 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R616 | 2007-000143 | R-CHIP;4.7Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R617 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R618 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R619 | 2007-000152 | R-CHIP;20Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R620 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R700 | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R701 | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R702 | 2007-000143 | R-CHIP;4.7Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R703 | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R704 | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R705 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R706 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R707 | 2007-001292 | R-CHIP;33ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R708 | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R709 | 2007-001313 | R-CHIP;330ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R711 | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R717 | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R718 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R719 | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005 | 1 | SA | |
| R720 | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R802 | 2007-000173 | R-CHIP;22ohm,5%,1/16W,TP,1005 | 1 | SA | |
| R830 | 2007-000173 | R-CHIP;22ohm,5%,1/16W,TP,1005 | 1 | SA | |
| S/W100 | 3404-001200 | SWITCH-TACT;12V DC,50MA,160GF,3.9X2 | 1 | SA | |
| S/W400 | 3408-001066 | SWITCH-SLIDE;4V,0.3A,SP3T,-,- | 1 | SA | |
| VAR403 | 1405-001093 | VARISTOR;14V,20A,1x0.5x0.6mm,TP | 1 | SA | |
| VAR404 | 1405-001093 | VARISTOR;14V,20A,1x0.5x0.6mm,TP | 1 | SA | |
| VAR407 | 1405-001093 | VARISTOR;14V,20A,1x0.5x0.6mm,TP | 1 | SA | |
| VAR408 | 1405-001093 | VARISTOR;14V,20A,1x0.5x0.6mm,TP | 1 | SA | |
| VAR500 | 2203-005493 | C-CER,CHIP;220nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| VAR501 | 2203-005493 | C-CER,CHIP;220nF,+80-20%,16V,Y5V,10 | 1 | SA | |
| XTAL100 | 2801-000102 | CRYSTAL-SMD;12MHz,30ppm,-,12pF,100o | 1 | SA | |
| XTAL101 | 2801-004339 | CRYSTAL-SMD;0.032768MHZ,20PPM,SMD,9 | 1 | SA | |
| XTAL700 | 2801-004339 | CRYSTAL-SMD;0.032768MHZ,20PPM,SMD,9 | 1 | SA | |
| | AH99-10017V | ASSY AUTO INSERT-PCB-MAIN;-,YP-S3,- | 1 | SNA | |
| | **AH97-02772K** | **ASSY-MACHINERY;YP-S3,XAC,-,-** | **1** | **SNA** | |
| | AH39-00899B | CBF CABLE;ALDSX145,YP-S3,24,1200,3A | 1 | SA | |

| Loc. No. | Part No. | Description;Specification | Q'ty | SNA | Remark |
|---|---|---|---|---|---|
| | AH46-00057B | S/W APPLICATION-MASTER CD;YP-S3 J,Y | 1 | SA | |
| | AH59-01884A | EARPHONE-EP-380;EP-380(BLACK),EP-38 | 1 | SA | |
| | AH63-01219L | COVER-BAG;YP-S3,LDPE,T0.1,W80,L120, | 1 | SA | |
| | AH68-00650L | MARK RECYCLE;YP-P2,ELS,ENG,-,MOJO40 | 1 | SA | |
| | AH68-02033E | MANUAL-QG;YP-S3,EDC,14 language,-,M | 1 | SA | |
| | AH69-01988A | PACKING CASE-TOP;YP-U3,PC,CLEAR,T1. | 1 | SNA | |
| | AH97-02646A | ASSY PACKING-MIDDLE;ASS'Y,YP-S3,-,- | 1 | SA | |
| | AH69-02224A | PACKING-CASE MIDDLE;YP-S3,PC,PACKIN | 1 | SA | |
| | AH69-02225A | PACKING-SHEET MIDDLE;YP-S3,PPR-OTH, | 1 | SNA | |
| | AH97-02746A | ASSY PACKING-CASE BOTTOM;ASS'Y,YP-S | 1 | SA | |
| | AH69-02201A | PACKING-CASE-BOTTOM;YP-T10,PC,-,2,8 | 1 | SNA | |
| | AH69-02226A | PACKING-SHEET BOTTOM;YP-S3,PPR-OTH, | 1 | SNA | |
| | AH07-00223A | .CD-TFT;DA-176TC-02,YP-S3,176X220,3 | 1 | SA | |
| | AH43-00015A | ERY;363844,YP-S3,Lithium-Polymer,5 | 1 | SA | |
| | AH63-01455A | SHEET-CASE;YP-U3,PET,T0.1,W20,L8,-, | 2 | SNA | |
| | AH68-00508U | LABEL SERIAL;COMMON,ELS,-,-,90,-,-, | 0.1 | SNA | |
| | AH68-00701H | LABEL SERIAL;YP-T7,ALL,-,-,W20,L5.6 | 1 | SNA | |
| | AH68-50119B | LABEL-EAN(B);ART-PAPER,T0.05,L29,W4 | 1.05 | SNA | |
| | AH69-02211G | MASTER CARTON;YP-S3,OTHER,T0.7,W251 | 0.1 | SA | |
| | AH69-02211H | MASTER CARTON-PAD;YP-S3,OTHER,T0.7, | 0.1 | SA | |

| Model | Area | Code | UMS | | |
|---|---|---|---|---|---|
| | | | 2GB | 4GB | 8GB |
| YP-S3 | EDC | Existing | | | |
| | | A/S Code | | | |
| | XEF | Existing | | | |
| | | A/S Code | | | |
| | XEU | Existing | | | |
| | | A/S Code | | | |
| | XME | Existing | | AH92-02796B | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | XSH | Existing | | | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | BAS | Existing | AH92-02796A | AH92-02796B | |
| | | A/S Code | UMS? MTP? | | |
| | XAA | Existing | | | |
| | | A/S Code | | | |
| | XAC | Existing | | | |
| | | A/S Code | | | |
| | XSA | Existing | | | |
| | | A/S Code | | | |
| | XSE | Existing | AH92-02796A | AH92-02796B | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | XBG | Existing | | AH92-02796B | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | SUN | Existing | | AH92-02796B | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | TSE | Existing | | AH92-02796B | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | XSV | Existing | | AH92-02796B | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | SMT | Existing | AH92-02796A | | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | XSP | Existing | | | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | XTL | Existing | | | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | SKD | Existing | | | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | XSV | Existing | | AH92-02796B | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |
| | KOR | Existing | | AH92-02796B | |
| | | A/S Code | AH82-00164A | AH82-00164B | AH82-00164C |

<YP-S3 AS Code Table 1>

| Model | Area | Code | MTP | | |
|---|---|---|---|---|---|
| | | | 2GB | 4GB | 8GB |
| YP-S3 | EDC | Existing | AH92-02796D | AH92-02796E | |
| | | A/S Code | AH82-00164D | AH82-00164E | AH82-00164E |
| | XEF | Existing | AH92-02796D | AH92-02796E | AH92-02796F |
| | | A/S Code | AH82-00164D | AH82-00164E | AH82-00164E |
| | XEU | Existing | | AH92-02796E | |
| | | A/S Code | AH82-00164D | AH82-00164E | AH82-00164E |
| | XME | Existing | | | |
| | | A/S Code | | | |
| | XSH | Existing | | | |
| | | A/S Code | | | |
| | BAS | Existing | | | |
| | | A/S Code | | | |
| | XAA | Existing | AH92-02796A | AH92-02796B | AH92-02796C |
| | | A/S Code | AH82-00164D | AH82-00164E | AH82-00164E |
| | XAC | Existing | | AH92-02796B | AH92-02796C |
| | | A/S Code | AH82-00164D | AH82-00164E | AH82-00164E |
| | XSA | Existing | AH92-02796A | AH92-02796B | |
| | | A/S Code | AH82-00164D | AH82-00164E | AH82-00164E |
| | XSE | Existing | | | |
| | | A/S Code | | | |
| | XBG | Existing | | | |
| | | A/S Code | | | |
| | SUN | Existing | | | |
| | | A/S Code | | | |
| | TSE | Existing | | | |
| | | A/S Code | | | |
| | XSV | Existing | | | |
| | | A/S Code | | | |
| | SMT | Existing | | | |
| | | A/S Code | | | |
| | XSP | Existing | | | |
| | | A/S Code | | | |
| | XTL | Existing | | | |
| | | A/S Code | | | |
| | SKD | Existing | | | |
| | | A/S Code | | | |
| | XSV | Existing | | | |
| | | A/S Code | | | |
| | KOR | Existing | | | |
| | | A/S Code | | | |

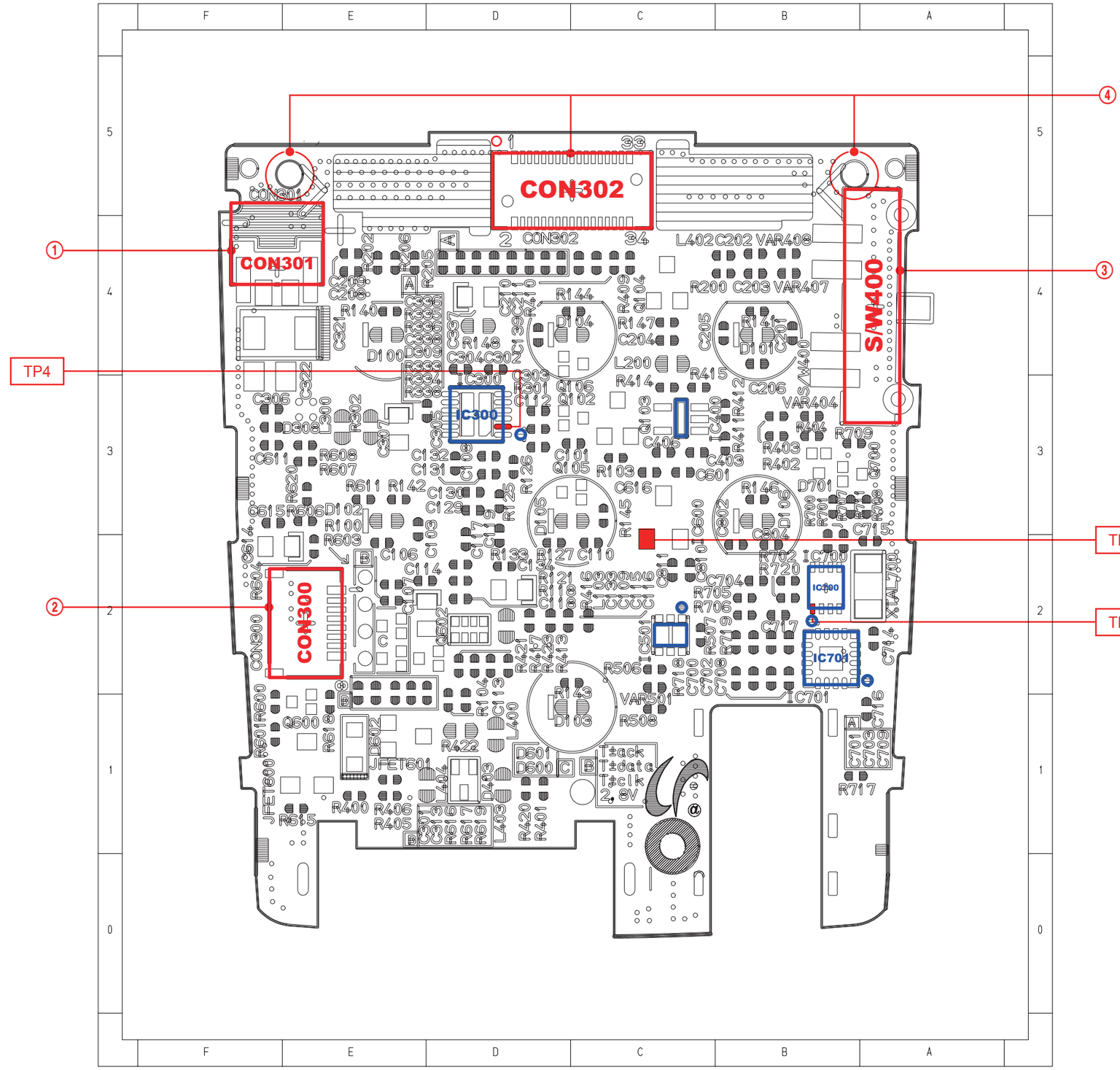
<YP-S3 AS Code Table 2>

# 6. PCB Diagram

6-1 PCB Top ..... 6-2

6-2 PCB Bottom ..... 6-4

## 6-1 PCB Top




| | |
|---|---|
| ① | Battery Connector<br>- Be careful of polarity when inserting |
| ② | Touch PAD Connector<br>- Insert it to the side<br>- Use the FPCB to connect the PCB with the Touch PAD |
| ③ | Power/Hold Switch<br>- Recognized as Power On/Off when pressed for a regular period of time towards the lower direction and self resetting<br>- Recognized as Hold when held in upper direction |
| ④ | LCD Connector & Guide Hole<br>- Assembled Top → Down and fixed to top of LCD |

## 6-1-1 Pin Connection

① CON301
Battery Connector

| Pin No. | Signal |
|---|---|
| 1 | GROUND |
| 2 | VCC |

② CON300
Touch PAD Connector

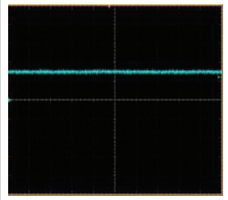
| Pin No. | Signal |
|---|---|
| 1 | GROUND |
| 2 | GROUND |
| 3 | GROUND |
| 4 | T_RESET |
| 5 | T_DATA |
| 6 | T_CLK |
| 7 | VCC |
| 8 | VCC |

④ CON302
LCD Connector

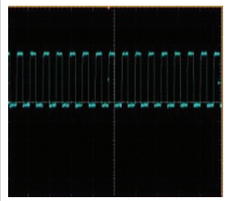
| Pin No. | Signal | Pin No. | Signal |
|---|---|---|---|
| 1 | GROUND | 18 | LCD_WR |
| 2 | LCD_OPTION | 19 | LCD_D[12] |
| 3 | VCC | 20 | LCD_RDB |
| 4 | GROUND | 21 | LCD_D[11] |
| 5 | VCC | 22 | GROUND |
| 6 | LED3 | 23 | LCD_D[10] |
| 7 | GROUND | 24 | LCD_D[0] |
| 8 | LED2 | 25 | LCD_D[9] |
| 9 | GROUND | 26 | LCD_D[1] |
| 10 | LED1 | 27 | LCD_D[8] |
| 11 | LCD_RESET | 28 | LCD_D[2] |
| 12 | VOUT(LED PWR) | 29 | GROUND |
| 13 | LCD_D[15] | 30 | LCD_D[3] |
| 14 | LCD_CE | 31 | LCD_D[7] |
| 15 | LCD_D[14] | 32 | LCD_D[4] |
| 16 | LCD_RS | 33 | LCD_D[6] |
| 17 | LCD_D[13] | 34 | LCD_D[5] |

## 6-1-2 Test Point Wave Form

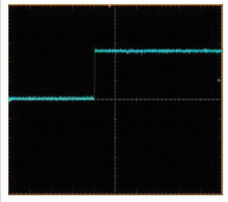
**TP2**



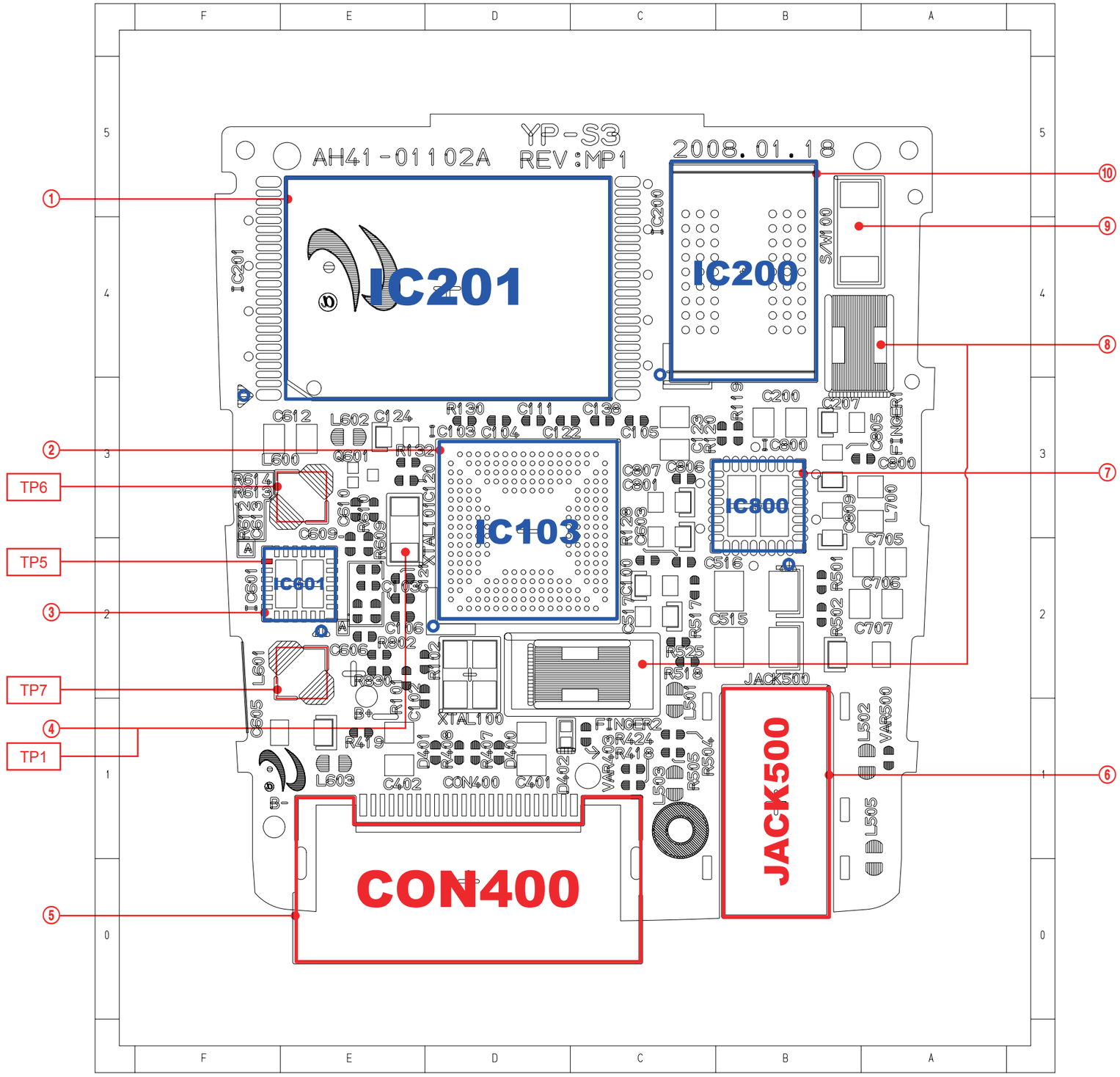
**TP3**



**TP4**



## 6-2 PCB Bottom




| | |
|---|---|
| ① | MEMORY IC<br>- Supports data memory and transmission in system |
| ② | MICOM IC<br>- Controls all system functions |
| ③ | DCDC Converter IC<br>- System power |
| ④ | 32.768 KHz Crystal<br>- System CLOCK |
| ⑤ | USB Connector<br>- Data communication with external devices |
| ⑥ | Earphone Jack<br>- Audio Output |
| ⑦ | CODEC IC<br>- Audio Function power |
| ⑧ | Finger GASKET<br>- ESD internal reinforcement |
| ⑨ | Reset Switch<br>- Resets power for set |
| ⑩ | SDRAM IC<br>- Supports data transfer in system |

## 6-2-1 Pin Connection

⑤ CON400
USB Jack

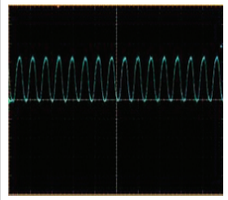
| Pin No. | Signal |
|---|---|
| 1 | BAT ID [Low current 450mA] |
| 2 | UART DETECT |
| 3 | VCC [IO 2.8V] |
| 4 | ADAPTOR INPUT |
| 5 | ADAPTOR INPUT |
| 6 | NC |
| 7 | CRADLE DETECT |
| 8 | NC |
| 9 | NC |
| 10 | USB D- |
| 11 | NC |
| 12 | GROUND |
| 13 | UART RX |
| 14 | UART TX |
| 15 | USB D+ |
| 16 | USB POWER |
| 17 | LINE OUT R |
| 18 | LINE OUT L |
| 19 | GROUND |
| 20 | CRADLE_ANT (FM) |
| 21 | BATTERY INPUT |
| 22 | BATTERY INPUT |
| 23 | EXTERNAL BATTERY DETECT |
| 24 | PBA_CE |

⑥ JACK500
Earphone Jack

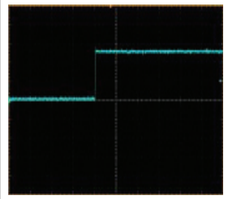
| Pin No. | Signal |
|---|---|
| 1 | GROUND |
| 2 | R-CH |
| 3 | L-CH |

## 6-2-2 Test Point Wave Form

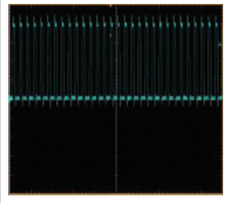
**TP1**



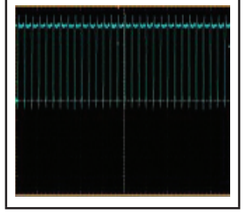
**TP5**



**TP6**



**TP7**



# MEMO

# 7. Schematic Diagram

7-1 Overall Block Diagram ..... 7-2

7-2 S5L8700A02 ..... 7-3

7-3 MEMORY ..... 7-4

7-4 LCD/KEY ..... 7-5

7-5 USB/MODE/DET ..... 7-6

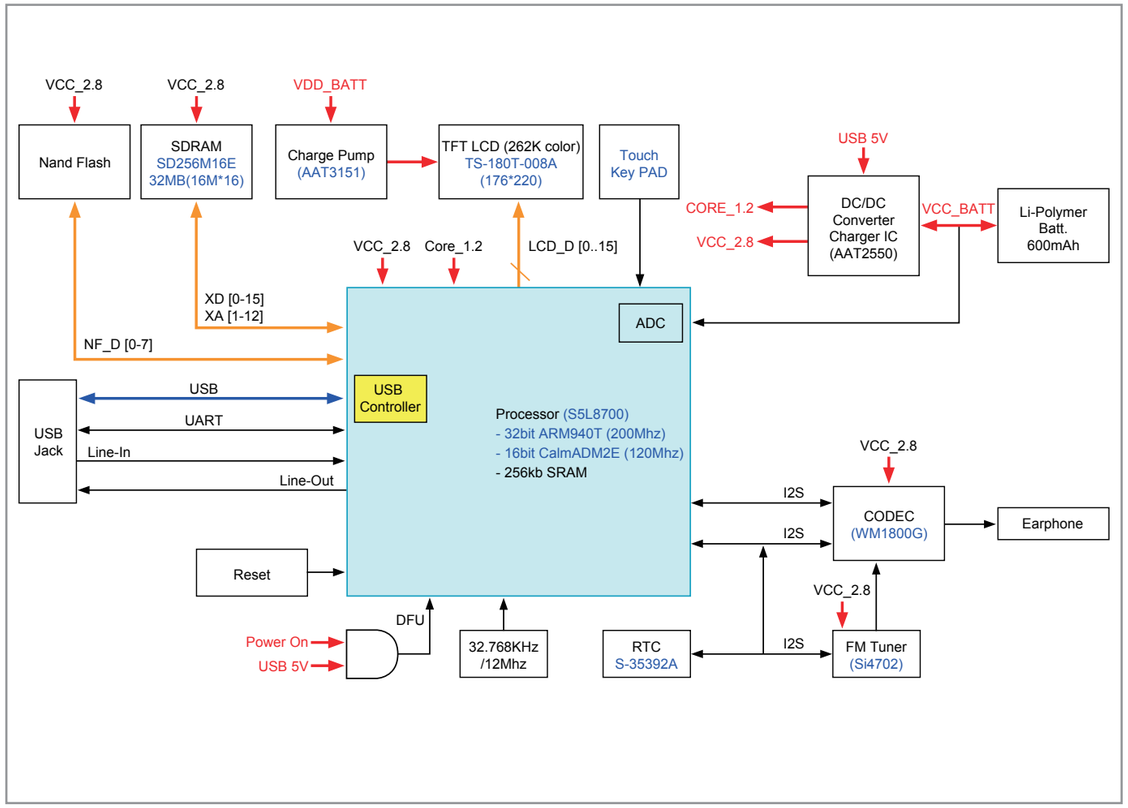
7-6 AUDIO (EAR JACK) ..... 7-7

7-7 POWER ..... 7-8

7-8 FM/RTC ..... 7-9

7-9 CODEC ..... 7-10

## 7-1 Overall Block Diagram




- In the Main System, the Processor (S5L8700), SDRAM, Flash Memory, Power Block, Audio DAC and others have a basic circuit block and include the FM-Tuner function block. The display connects with the 1.8 inch TFT LCD.
- The IC Serial Interface covers the whole system and has a variety of protocols. First use the host processor (S5L8700) UART and implement the CODEC and FM Tuner functions.
- The audio DAC use to I2C, I2S to achieve Mode Setting and data transmission separately.
- The power is turned on or off by the Power S/W on the right side of the set. Power is possible through the internal battery or the adapter, and 5V input is possible with the adapter. Power through the adapter charges the battery at AAT2550, and system power (2.8V, 1.2) is made.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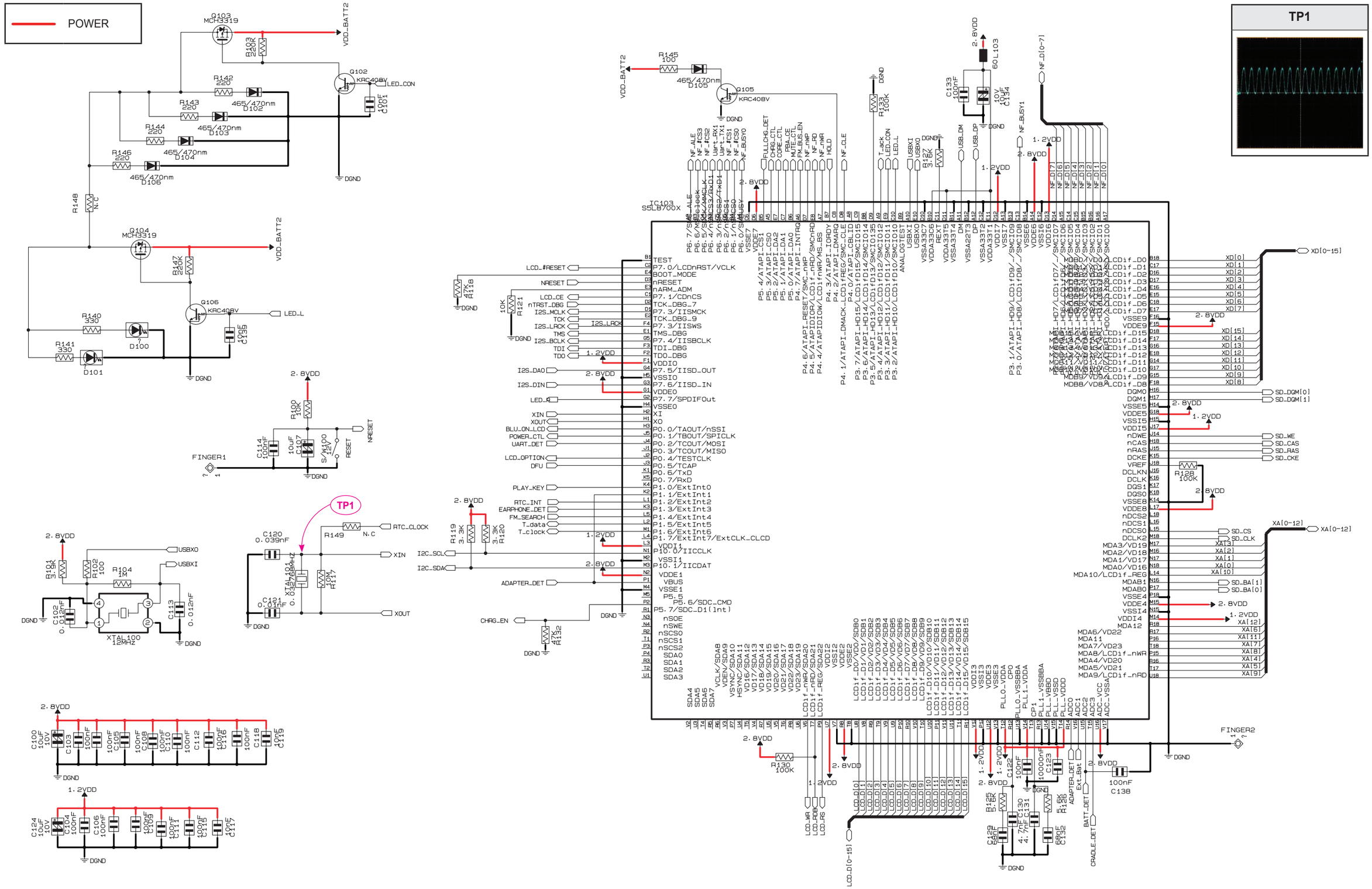
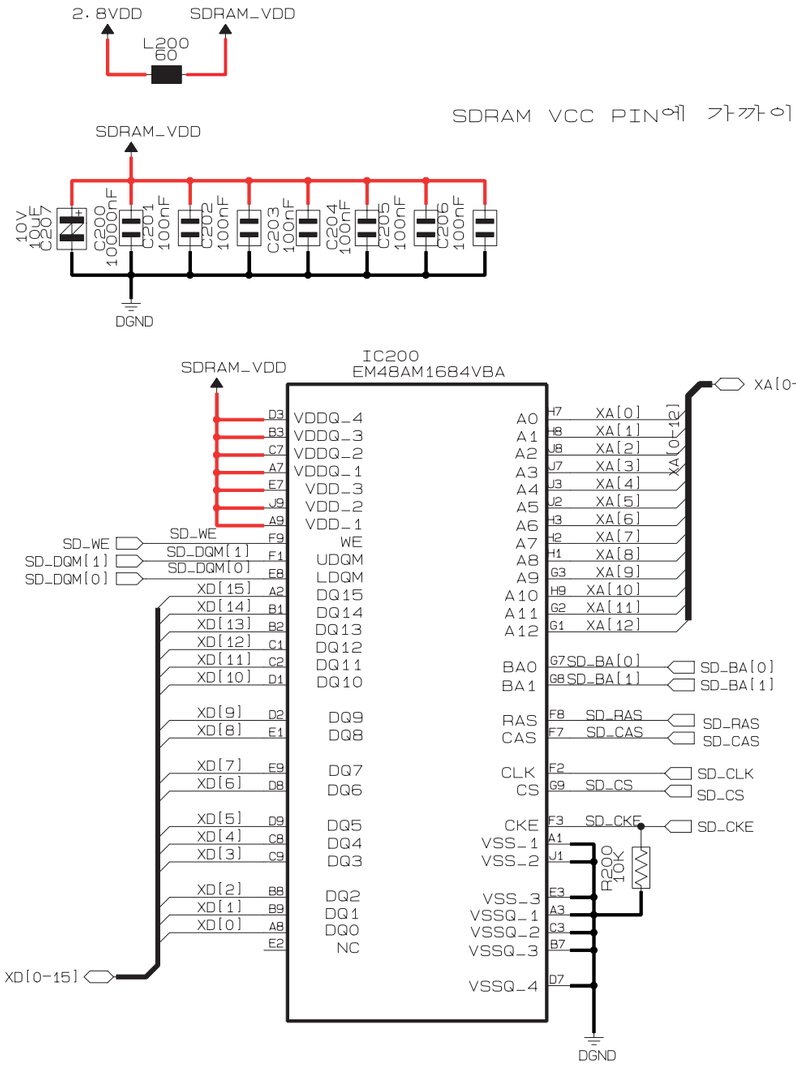
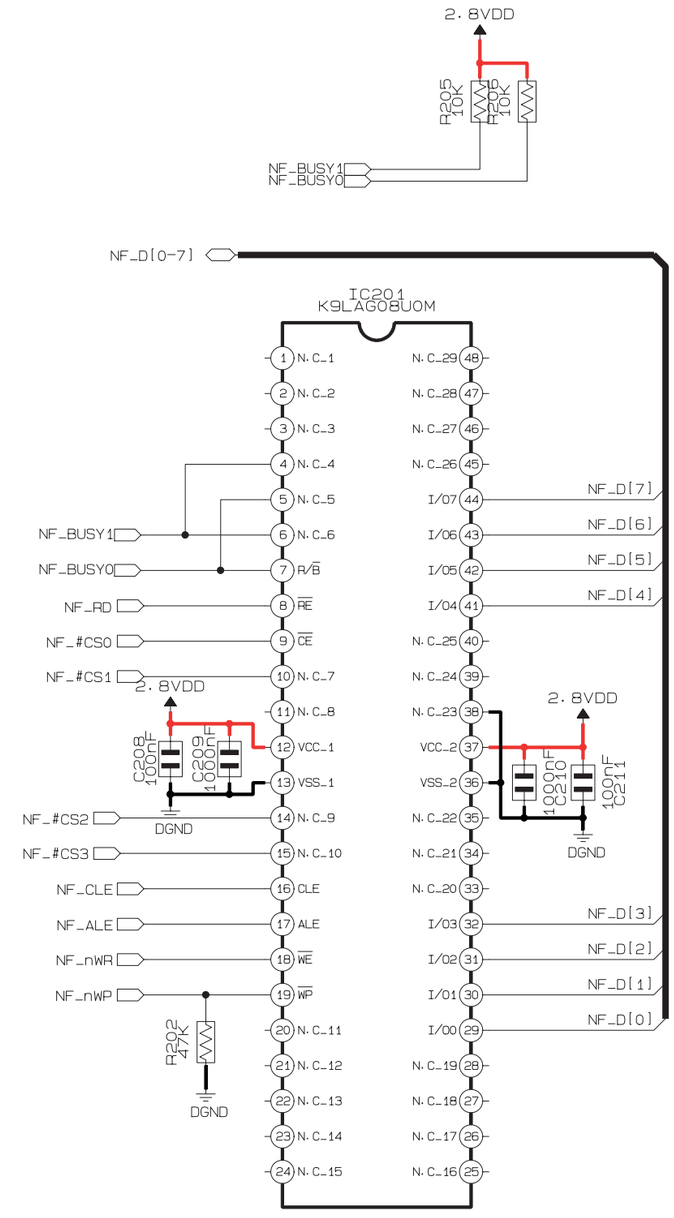
# 7-2 S5L8700A02



# 7-3 MEMORY

POWER





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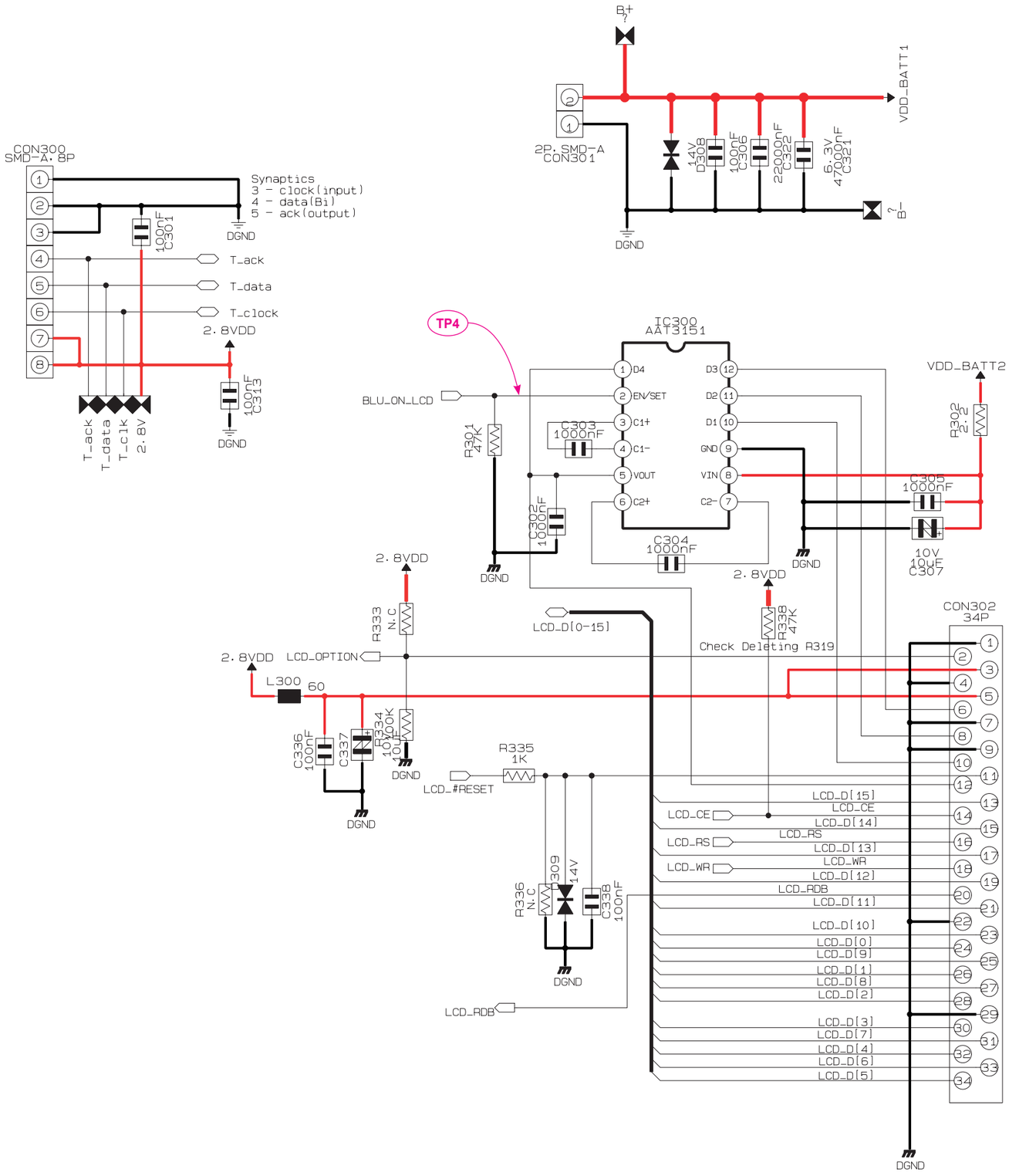
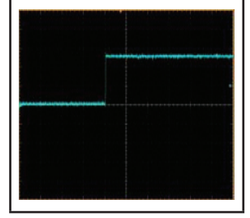
## 7-4 LCD/KEY

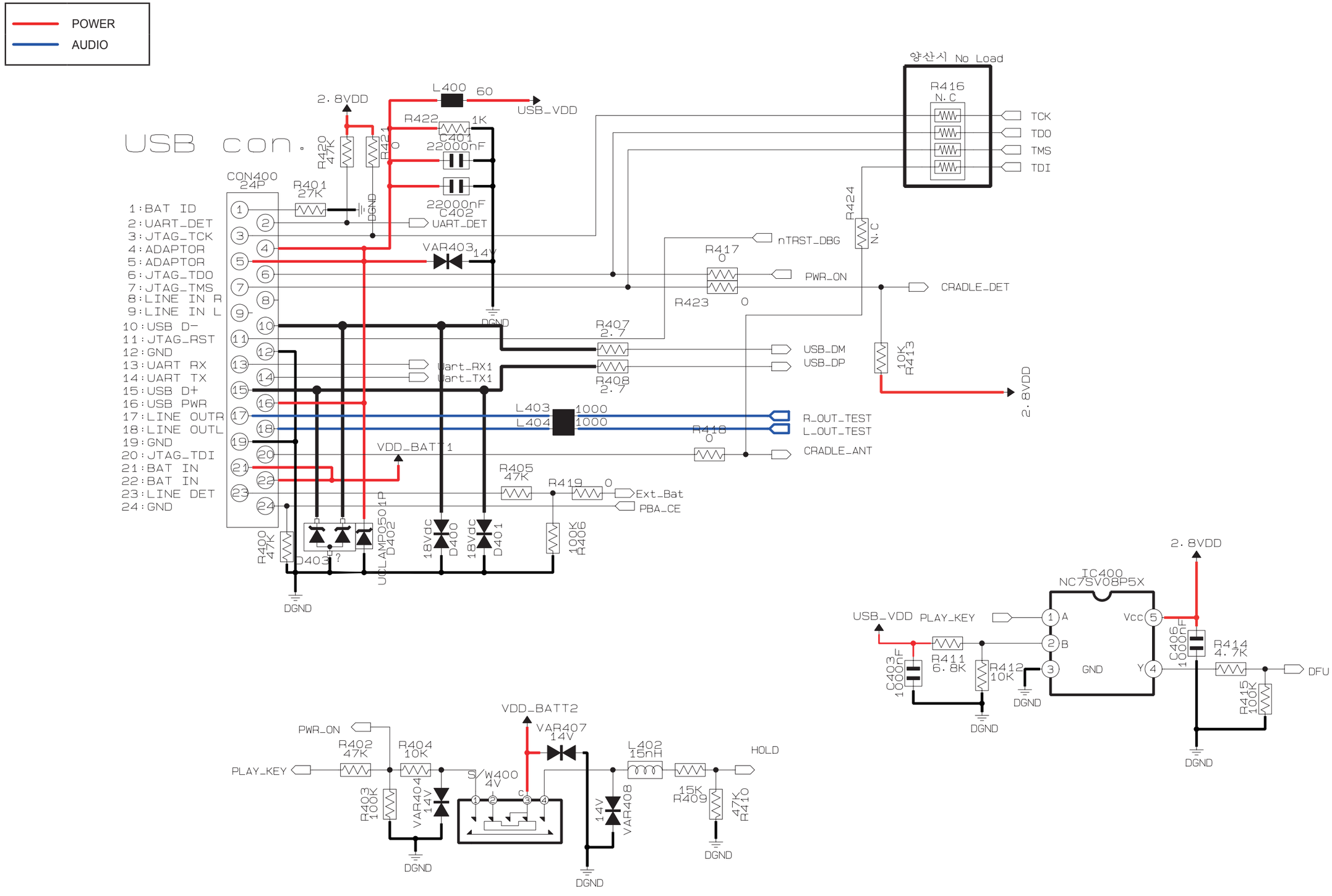
POWER




TP4



## 7-5 USB/MODE/DET





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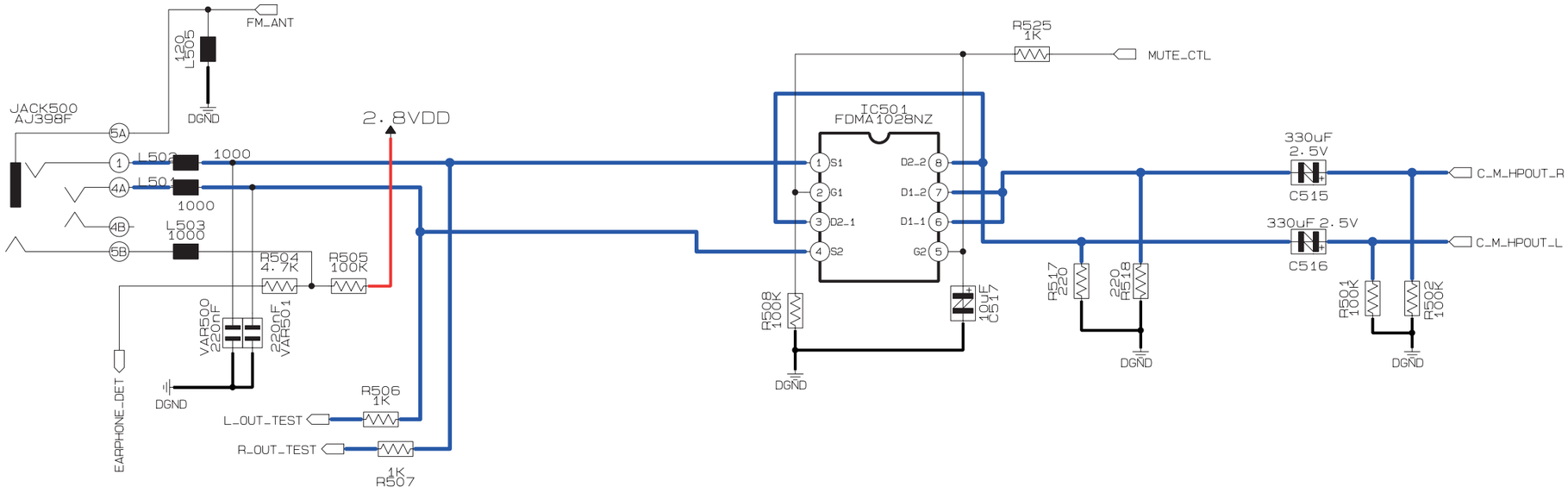
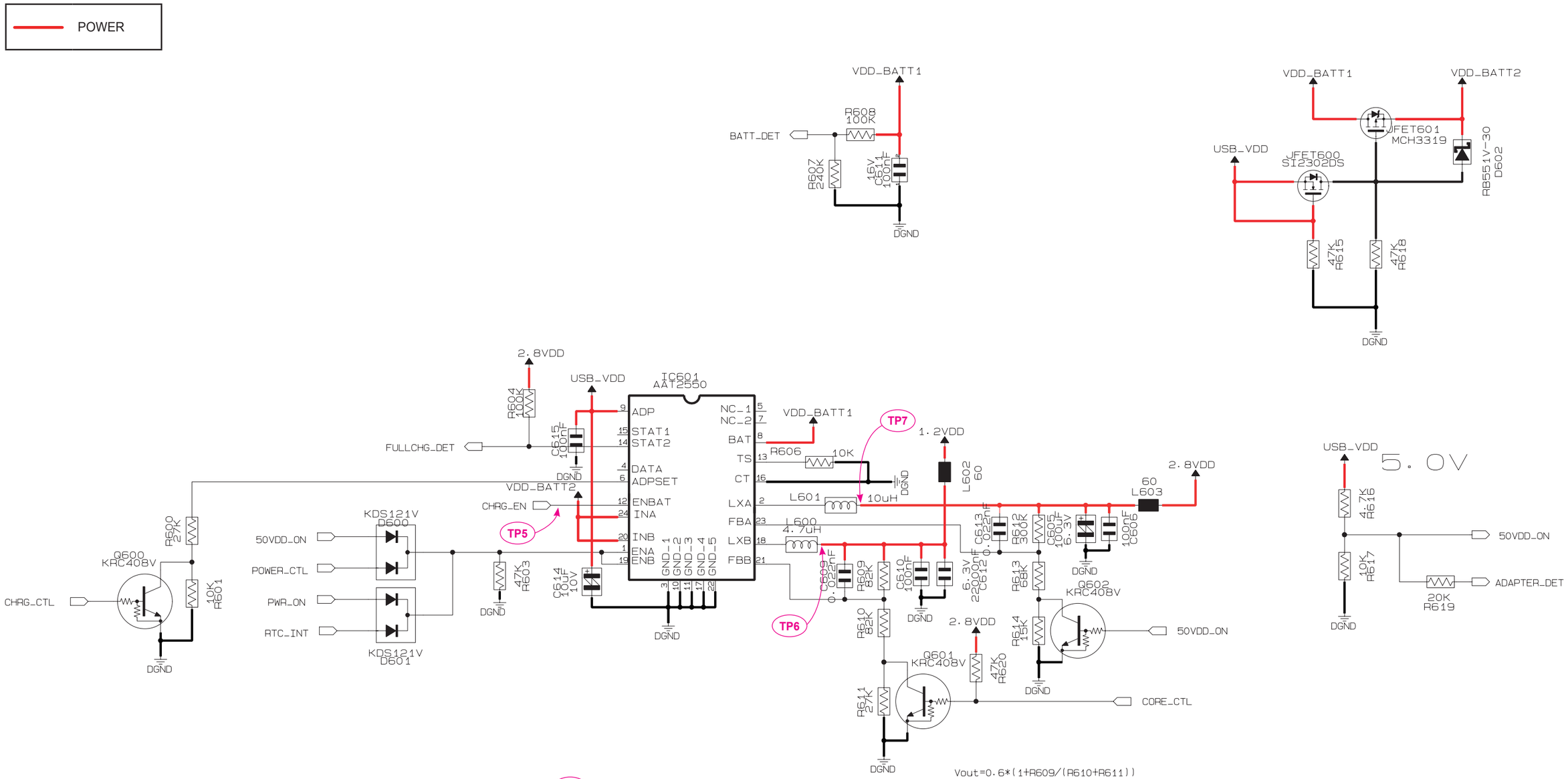
## 7-6 AUDIO (EAR JACK)

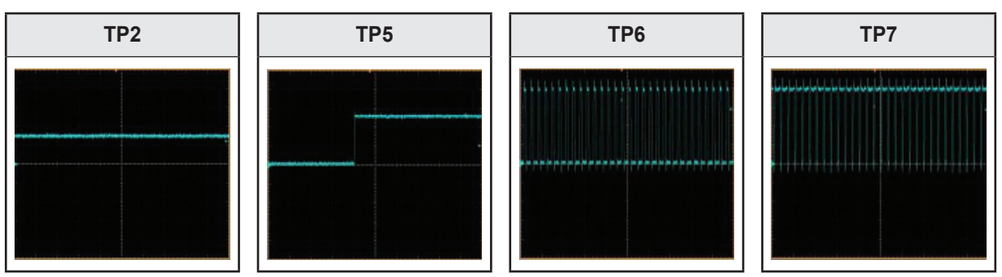
POWER
AUDIO



## 7-7 POWER

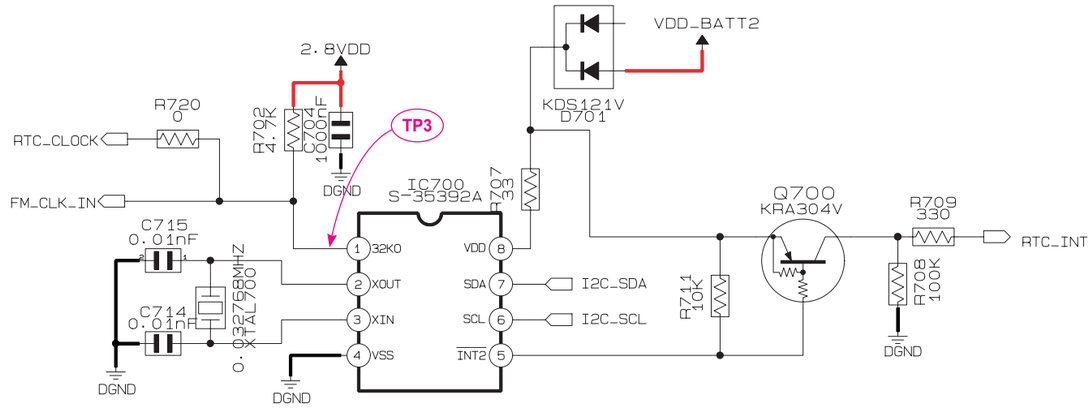
POWER

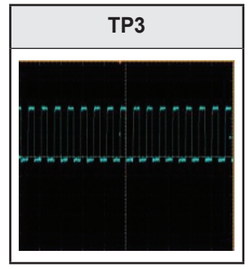


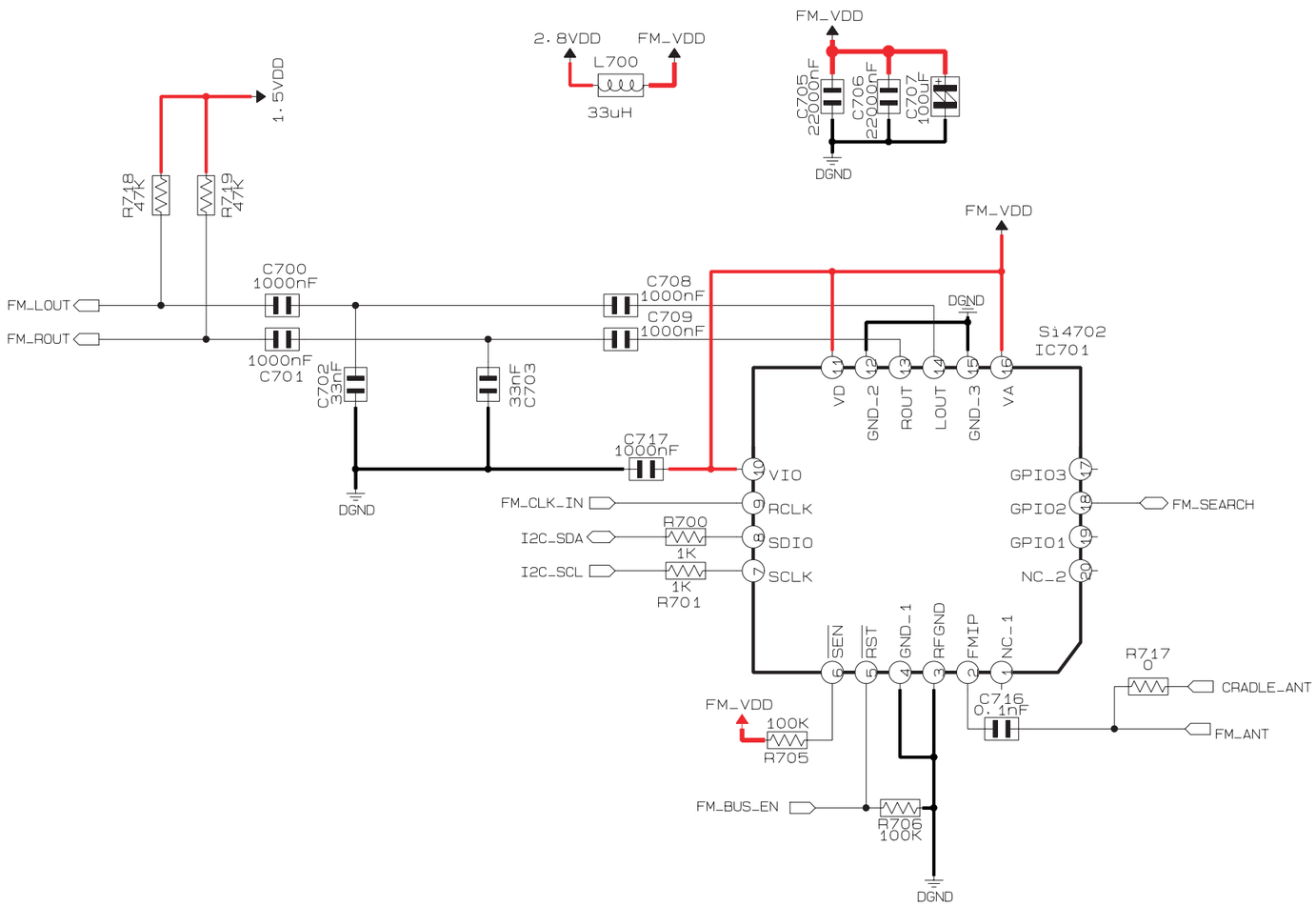



## 7-8 FM/RTC

POWER

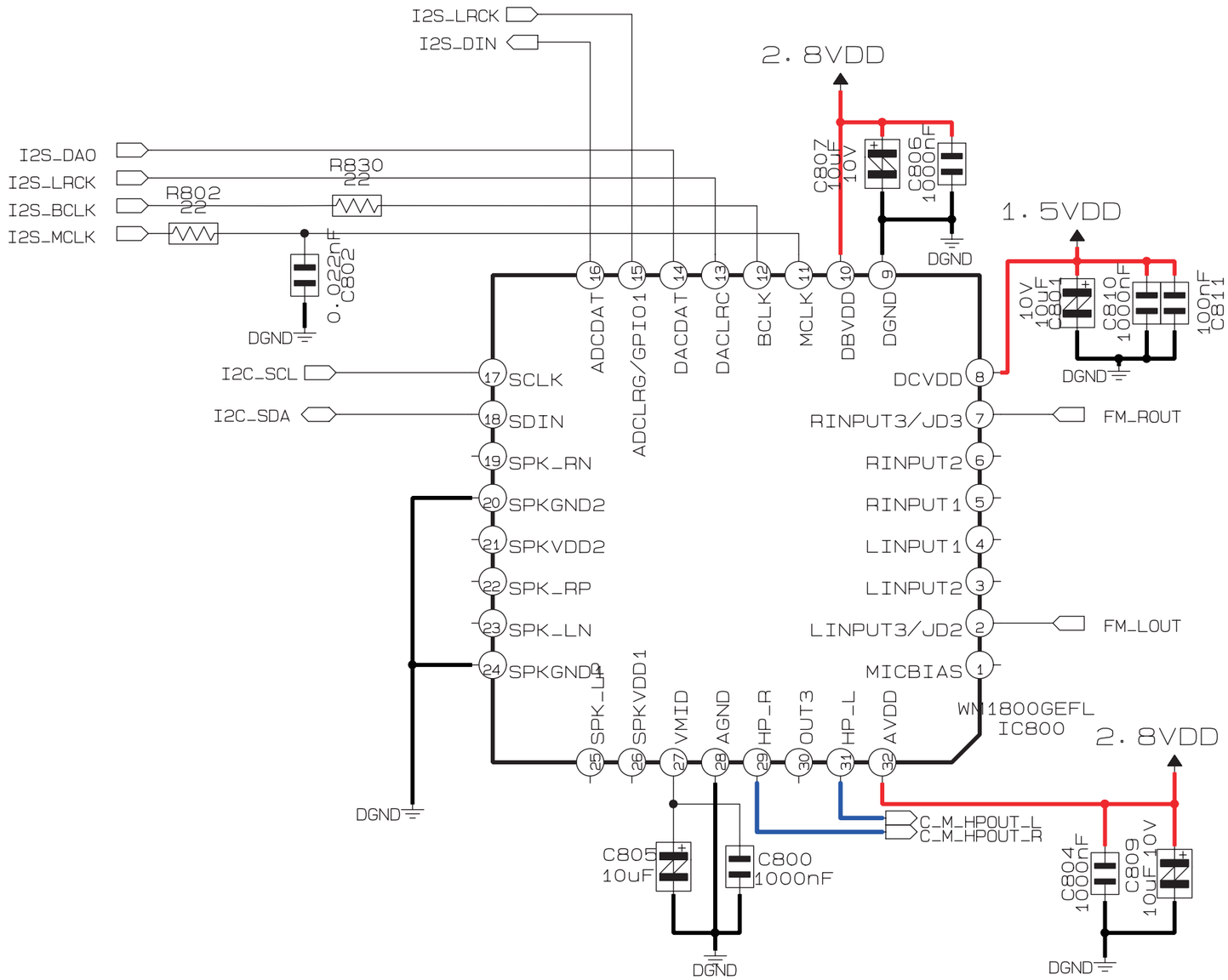


## 7-9 CODEC

POWER
AUDIO





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